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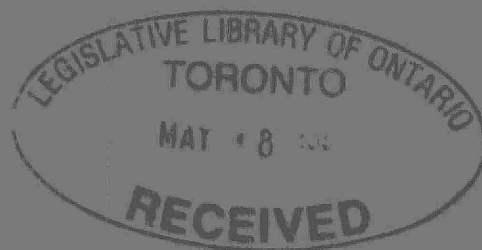
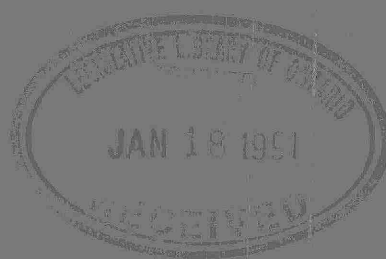
AN INVENTORY OF DATA ON MERCURY LEVELS IN ONTARIO FISH

DECEMBER, 1977

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Ontario

Ministry
of the
Environment

The Honourable
George A. Kerr, Q.C.,
Minister

K.H. Sharpe,
Deputy Minister

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AN INVENTORY OF DATA ON
MERCURY LEVELS IN
ONTARIO FISH

REPORT NO. 360-77-06

ONTARIO MINISTRY OF THE ENVIRONMENT

LABORATORY SERVICES BRANCH

DECEMBER, 1977.

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SUMMARY

This report is an inventory of mercury data holdings at the Ministry of the Environment Laboratory Services Branch. It includes statistical summaries of over 32,000 fish from 508 surveys on 429 locations throughout Ontario. The data is presented alphabetically, broken down according to Ministry region.

INTRODUCTION

The problem of mercury in Ontario freshwater fish was first noted in 1970. In that year, elevated levels were found in Lake St. Clair, downstream from a mercury cell chlor-alkali plant.

From 1970 to 1974, the Ministry of Environment analyzed many fish from Lake St. Clair in support of a court case against the suspected polluter, and some fish surveys were made in areas with known or suspected mercury inputs, such as lakes on the Wabigoon-English river system. A few minor surveys were made in other lakes throughout the Province, but by far the greatest analysis was directed at Lake St. Clair and the Wabigoon-English system.

Since 1975, however, it has become apparent that waters removed from direct industrial input may contain fish with elevated mercury levels. In conjunction with the Ministry of Natural Resources, the Ministry of the Environment initiated a continuing program of analyzing the mercury concentration in fish from many different lakes in Ontario. This report is an inventory of mercury data that is on hand at the Laboratory Services Branch. It includes not only data from Ministry of the Environment (MOE) analyses, but also some data from the Freshwater Institute in Winnipeg (FRB) and the Provincial Pesticides Laboratory (PPL) in Guelph. It does not include all available data on mercury in Ontario fish, but includes all the information it has been possible to obtain from these sources. Also excluded in the summaries are data on fish for which length or weight was missing, or surveys too small in number to be statistically significant.

The purpose of this report is to provide summaries of all the available data to facilitate the current assessment of mercury levels in Ontario, and to provide a basis for planning future survey work. Since mercury analyses are ongoing, periodic updates of this report will be required (likely on an annual bases).

DATA PRESENTATION

The summaries for inland waters have been organized according to Ministry of the Environment regions (see Fig 1). Within each region, the lakes are listed alphabetically. Data on each of the Great Lakes has been broken down according to statistical districts defined by the Ministry of Natural Resources.

Lake names and latitude/longitude are according to the Gazetteer of Canada, where appropriate, and those water bodies not listed in the Gazetteer have names and locations according to information given by field personnel responsible for the fish collections

Mercury data is presented by species (see Table 1). For each species, the number of specimens comprising the sample (N) is recorded along with the arithmetic mean and ranges of the mercury concentration (ppm or ug/g), length (cm), weight (g), as well as the percentages of mercury concentrations in the sample exceeding the 0.50 ug/g guideline for unrestricted consumption.

For species with five or more representatives a regression analysis has been performed. The model used is one with both parameters (mercury and length) transformed by natural logarithms. The product moment correlation coefficient is tested ($H_0: r = 0$) and if it is found to be different from zero ($p < 0.05$), an "ABCD" breakdown is performed.

This breakdown is an indication of mercury concentration ranges to be found in length ranges included in the sample. The "ABCD" is assigned by solving the regression equation at the upper limit of the length range. The letters are assigned to length ranges found in the sample, extended at both ends by 10%.

Finally, the coefficients for the mercury on length regression are given (in the form $(Hg) = A_0 \times L^{A_1}$), along with the correlation coefficient. Also included is the mercury concentration at a "standard length" fish. The standard length of 50 cm for a walleye was selected as being a common size encountered in most collections. The mercury concentration at this length has been used to compare mercury levels in fish from year to year, and area to area, eliminating variability due to differences in the average size of walleye making up the sample. Walleye collections are not available for all lakes, but it was found that 60 cm lake trout and pike had levels similar to those of a 50 cm walleye. These "standard" mercury concentrations permit comparison of mercury levels between lakes, and offer a very approximate indication of relative mercury from one lake to another, or one year to another. The major drawbacks to this approach is that it does not adequately account for the differences in growth rate; that is, there may be differences in the time required for fish to reach the standard length in different lakes.

Although much remains to be learned about the levels of mercury in different species of fish, and about the relative levels in thousands of Ontario lakes, this inventory is a first step in combining known collections of mercury-fish data. The inventory should be valuable in providing actual numbers for several hundred locations in the Province, and the data is presented in a manner that allows for comparison by species, geographically, and temporally.

SOUTHWESTERN REGION

| LOCATION _____ | TOWNSHIP _____ | COUNTY _____ | YEAR (of collection) _____ |
|--------------------------------|-------------------|-----------------|----------------------------------|
| Thames River (Moraviantown) | Oxford | Kent | 1976 |

CENTRAL REGION

| <u>LOCATION</u> | <u>TOWNSHIP</u> | <u>COUNTY</u> | <u>YEAR</u> (of <u>collection</u>) |
|------------------|-----------------|---------------|--|
| Anstruther Lake | Anstruther | Peterborough | 1976 |
| Balsam Lake | Fenelon | Victoria | 1974 |
| Bass Lake | Orillia | Simcoe | 1970 |
| Bella Lake | Sinclair | Muskoka | 1973 |
| Big Wind Lake | Oakley | Muskoka | 1971 |
| Boshkung Lake | Stanhope | Haliburton | 1977 |
| Bow Lake | Methuen | Peterborough | 1976 |
| Buchanan Lake | Brunel | Muskoka | 1976 |
| Chandos Lake | Chandos | Peterborough | 1977 |
| Cheddar Lake | Cardiff | Haliburton | 1976 |
| Clayton Lake | Livingstone | Haliburton | 1971 |
| Clear Lake | Oakeley | Muskoka | 1971 |
| Lake Couchiching | Orillia | Simcoe | 1977 |
| Crystalline Lake | Livingstone | Haliburton | 1971 |
| Dalrymple Lake | Carden | Ontario | 1977 |
| Dog Lake | Eyre | Haliburton | 1976 |
| Dummer Lake | Dummer | Peterborough | 1977 |
| Eels Lake | Anstruther | Haliburton | 1976 |
| Fairy Lake | Chaffey | Muskoka | 1977 |
| Gloucester Pool | Baxter | Muskoka | 1971 |
| Go Home Lake | Gibson | Muskoka | 1977 |
| Hunter's Bay | Stisted | Muskoka | 1977 |
| Lake Joseph | Medora | Muskoka | 1977, 76, 70 |
| Kahshe Lake | Morrison | Muskoka | 1977 |
| Kawagama Lake | McClintock | Haliburton | 1977 |
| Koshlong Lake | Glamorgan | Haliburton | 1977, 76 |
| Lake of Bays | Franklin | Muskoka | 1977, 76 |
| Little Lake | Tiny | Simcoe | 1977 |
| Lake Louisa | Lawrence | Haliburton | 1976 |
| Mary Lake | Stephenson | Muskoka | 1977 |
| McKay Lake | Draper | Muskoka | 1971 |
| Millichamp Lake | McClintock | Haliburton | 1971 |
| Miskwabi Lake | Dudley | Haliburton | 1977 |
| Mississagua Lake | Harvey | Peterborough | 1977 |
| Lake Muskoka | Muskoka | Muskoka | 1977, 76, 70 |
| Nottawasaga R. | Sunnidale | Simcoe | 1977 |
| Oxtongue Lake | McClintock | Haliburton | 1971, 70 |

| LOCATION | TOWNSHIP | COUNTY | YEAR (of collection) |
|-----------------|-------------|--------------|-------------------------|
| Paudash Lake | Cardiff | Haliburton | 1976 |
| Pigeon Lake | Verulam | Victoria | 1977 |
| Prospect Lake | Draper | Muskoka | 1977 |
| Rice Lake | Otonabee | Peterborough | 1977 |
| Roger Lake | Livingstone | Haliburton | 1971 |
| Lake Rosseau | Medora | Muskoka | 1977,70,69 |
| Lake St. John | Rama | Simcoe | 1977,71 |
| Lake Scugog | Ontario | Victoria | 1977,70 |
| Scugog River | Fenelon | Victoria | 1976 |
| Severn River | Baxter | Muskoka | 1977 |
| Silent Lake | Cardiff | Haliburton | 1976 |
| Lake Simcoe | - | Simcoe | 1977,76,75 1971,70 |
| Six Mile Lake | Baxter | Muskoka | 1971 |
| Skeleton Lake | Cardwell | Muskoka | 1977,1971 |
| Sparrow Lake | Orillia | Muskoka | 1977,71 |
| Stony Lake | Dummer | Peterborough | 1977 |
| Sturgeon Lake | Fenelon | Victoria | 1977 |
| Sunrise Lake | Livingstone | Haliburton | 1971 |
| Tadenac Lake | Freeman | Muskoka | 1977 |
| Three Mile Lake | Watt | Muskoka | 1977 |
| Thompson Lake | King | York | 1977 |
| Vernon Lake | Stisted | Muskoka | 1977 |
| Woods Lake | Cardwell | Muskoka | 1977 |

SOUTHEASTERN REGION

| <u>LOCATION</u> | <u>TOWNSHIP</u> | <u>COUNTY</u> | <u>YEAR</u> (of <u>collection</u>) |
|--------------------------------|-----------------|---------------|--|
| Bark Lake | Jones | Renfrew | 1976 |
| Big Clear Lake | Bedford | Frontenac | 1977 |
| Big Rideau Lake | Elmsley | Leads | 1977,70 |
| Big Salmon Lake | Bedford | Frontenac | 1977 |
| Black Lake | N. Burgess | Lanark | 1977 |
| Buck Lake | Bedford | Frontenac | 1977 |
| Calabogie Lake | Blithfield | Renfrew | 1977 |
| Constan Lake | Grattan | Renfrew | 1976 |
| Constance Lake | March | Carleton | 1970 |
| Crowe Lake | Belmont | Hastings | 1976 |
| Devil Lake | Bedford | Frontenac | 1977 |
| Dickey Lake | Lake | Hastings | 1977 |
| Eagle Lake | Olden | Frontenac | 1977 |
| Fortune Lake | Miller | Frontenac | 1977 |
| Green Lake | Lavant | Lanark | 1970 |
| Kamaniskeg Lake | Bangor | Renfrew | 1977 |
| Kennebec Lake | Kennebec | Frontenac | 1977 |
| Kerr Lake | Lanark | Lanark | 1976 |
| Lingham Lake | Grimsthorpe | Hastings | 1977 |
| Lower Rideau Lake | Elmsley | Leeds | 1970 |
| Mackie Lake | Miller | Frontenac | 1977 |
| Mazinaw Lake | Abinger | Lennox | 1977 |
| Mississippi Lake | Drummond | Lanark | 1977 |
| Mississippi River | Pakenham | Lanark | 1976 |
| Moir Lake | Huntingdon | Hastings | 1976 |
| Muskrat Lake | Westmeath | Renfrew | 1977 |
| Ottawa River | Ottawa | Carleton | 1977,76 |
| Ottawa River | Petawawa | Renfrew | 1977 |
| Otty Lake | N. Burgess | Lanark | 1977 |
| Rideau River | Ottawa | Carleton | 1976 |
| Rideau River (Merrickville) | Wolford | Grenville | 1971 |
| Rideau River (Westport) | Crosby | Leeds | 1971 |
| Lake St. Peter | McClure | Hastings | 1976 |
| Skootamatta Lake | Anglessa | Lennox | 1977 |
| Stoco Lake | Hungerford | Hastings | 1976 |

Southeastern Region (continued)

| LOCATION | TOWNSHIP | COUNTY | YEAR (of collection) |
|-----------------|----------|-----------|-------------------------|
| Weslemkoon Lake | Ashby | Lennox | 1977 |
| Wolf Lake | Tudor | Hastings | 1977 |
| Wolfe Lake | Bedford | Frontenac | 1977 |

NORTHEASTERN REGION

| <u>LOCATION</u> | <u>TOWNSHIP</u> | <u>COUNTY</u> | <u>YEAR</u> (of <u>collection</u>) |
|----------------------|-----------------|---------------|--|
| Lake Abitibi | | Cochrane | 1974 |
| Agnew Lake | | Sudbury | 1975 |
| Ahmik Lake | Croft | Parry Sound | 1977 |
| Amikougami Lake | Bernhardt | Timiskaming | 1976 |
| Austen Lake | Hincks | Timiskaming | 1977 |
| Aylen Lake | Dickens | Nipissing | 1976 |
| Bellows Lake | Deagle | Algoma | 1977 |
| Bennet Lake | Guilfoyle | Cochrane | 1976 |
| Lake Bernard | Strong | Parry Sound | 1977 |
| Biscotasing Lake | Margaret | Sudbury | 1977 |
| Black River | Walker | Timiskaming | 1976 |
| Caribou Lake | McConkey | Parry Sound | 1977, 76 |
| Cedar Lake | Deacon | Nipissing | 1977 |
| Cecebe Lake | Chapman | Parry Sound | 1977, 71 |
| Commanda Lake | Patterson | Parry Sound | 1977, |
| Coppell Lake | Lowther | Cochrane | 1977 |
| Crane Lake | Conger | Parry Sound | 1977 |
| Crosswise Lake | Coleman | Timiskaming | 1975 |
| Doe Lake | Ryerson | Parry Sound | 1977 |
| Dollars Lake | Blair | Parry Sound | 1976 |
| Duncan Lake | Raymond | Timiskaming | 1977 |
| Elk Lake | Smyth | Timiskaming | 1977 |
| Elliot Lake | Elliot Lake | Algoma | 1976 |
| Elmer Lake | Doon | Timiskaming | 1972 |
| Emerald Lake | Afton | Sudbury | 1976 |
| Esmee Lake | Seaton | Cochrane | 1977, 76 |
| Evangeline Lake | McKinnon | Sudbury | 1976 |
| Five Mile Lake | II D | Sudbury | 1977 |
| Francklyn Lake | Nixon | Cochrane | 1976 |
| Fraser Lake | I.R. 9 | Parry Sound | 1976 |
| Frederick House Lake | Evelyn | Cochrane | 1976 |
| French River | - | Parry Sound | 1976 |
| Fushimi Lake | Stoddart | Cochrane | 1977 |
| Giroux Lake | Coleman | Timiskaming | 1975 |
| Gough Lake | Gough | Sudbury | 1975 |
| Gowganda Lake | Milner | Timiskaming | 1977 |
| Griffin Lake | Griffin | Cochrane | 1977 |

Northeastern Region (continued)

| LOCATION | TOWNSHIP | DISTRICT | YEAR (pf collection) |
|---------------------|------------|-------------|-------------------------|
| Groundhog River | Clay | Cochrane | 1976 |
| Guilfoyle Lake | Guilfoyle | Cochrane | 1977,76 |
| Hamlock Lake (1) | I.R.9 | Parry Sound | 1976 |
| Hamlock Lake (2) | I.R.9 | Parry Sound | 1976 |
| Hanlan Lake | Hanlan | Cochrane | 1977 |
| Harris Lake | I.R.9 | Parry Sound | 1977 |
| Highbrush Lake | 13G | Sudbury | 1977 |
| Hogan Lake | Freswick | Nipissing | 1976 |
| Horwood Lake | Horwood | Sudbury | 1977,76 |
| Howard Lake | Arnold | Timiskaming | 1976 |
| Ivanhoe Lake | - | Sudbury | 1977 |
| Jowsey Lake | Carscallen | Cochrane | 1976 |
| Kamiskotia Lake | Robb | Cochrane | 1976 |
| Kapuskasing R. | - | Cochrane | 1974 |
| Kecil Lake | Victoria | Algoma | 1977 |
| Keenoa Lake | Fenton | Cochrane | 1977,76 |
| Kenogami Lake | Grenfell | Timiskaming | 1976 |
| Kenogaming Lake | Regan | Sudbury | 1976 |
| Kenogamissi Lake | - | Timiskaming | 1976 |
| Kernick Lake | Armour | Parry Sound | 1976 |
| Kioshkokwi Lake | Pentland | Nipissing | 1977,76 |
| LaCloche Lake | Harrow | Sudbury | 1975 |
| Lake Lamuir | Bishop | Nipissing | 1976 |
| Lang Lake | Shedden | Algoma | 1977 |
| Larder Lake | McGarry | Timiskaming | 1976 |
| LeGrou Lake | Mills | Parry Sound | 1977 |
| Little French River | - | Parry Sound | 1976 |
| Little Serpent Lake | Deagle | Algoma | 1977 |
| Little Tomiko Lake | Stewart | Nipissing | 1977 |
| Lohi Lake | Broder | Sudbury | 1976 |
| Long Lake | Milner | Timiskaming | 1977 |
| Lower French River | - | Parry Sound | 1976 |
| Manitou Lake | Sandfield | Manitoulin | 1975 |
| Martison Lake | - | Cochrane | 1977 |
| Mattagami River | Reid | Cochrane | 1975 |
| Mattagami Lake | | Sudbury | 1976 |
| McCarthy Lake | Proctor | Algoma | 1976 |
| McCraney Lake | McCraney | Nipissing | 1977 |

Northeastern Region (continued)

| LOCATION | TOWNSHIP | DISTRICT | 1976 (Of collection) |
|---------------------|-----------|-------------|-------------------------|
| McLeister Lake | - | Cochrane | 1977 |
| Memesagamesing Lake | Hardy | Parry Sound | 1975 |
| Mesomikenda Lake | Chester | Sudbury | 1976 |
| Mindemoya Lake | Carnarvon | Manitoulin | 1975 |
| Minisinakwa Lake | Noble | Sudbury | 1976 |
| Minnow Lake | McKim | Sudbury | 1975 |
| Misema Lake | Arnold | Timiskaming | 1977 |
| Missinaibi Lake | Leeson | Sudbury | 1977 |
| Mississagi River | - | Algoma | 1976 |
| Mistinikon Lake | Baden | Timiskaming | 1977 |
| Moose River | - | Cochrane | 1977,76 |
| Mud Lake | I.R.9 | Parry Sound | 1976 |
| Nabakwasi Lake | Miramachi | Sudbury | 1975 |
| Nepahwin Lake | McKim | Sudbury | 1975 |
| Nighthawk Lake | - | Cochrane | 1976 |
| Lake Nipissing | - | Nipissing | 1977,76 |
| Old Woman River | - | Algoma | 1977 |
| Oliver Lake | McKellar | Parry Sound | 1977 |
| Opasatika Lake | Opasatika | Algoma | 1977 |
| Opeepeesway Lake | Osway | Sudbury | 1977 |
| Papakomeka Lake | Adams | Timiskaming | 1976 |
| Peterlong Lake | Musgrove | Timiskaming | 1976 |
| Pharand Lake | Pharand | Timiskaming | 1976 |
| Pivabiska Lake | Hanlan | Cochrane | 1977 |
| Porcupine Lake | Whitney | Cochrane | 1976 |
| Prairie Bee Lake | Peter | Sudbury | 1977 |
| Pratt Lake | Seaton | Cochrane | 1977,76 |
| Ramsey Lake | Elizabeth | Sudbury | 1977 |
| Ramsey Lake | McKim | Sudbury | 1975 |
| Red Cedar Lake | McCallum | Nipissing | 1977,76 |
| Red Rock Lake | Whitman | Algoma | 1976 |
| Remi Lake | Gurney | Cochrane | 1977, |
| Restoule Lake | Patterson | Parry Sound | 1977,76 |
| Robin Lake | I.R.9 | Parry Sound | 1976 |
| Rock Island Lake | Notman | Nipissing | 1977 |
| Round Lake | Otto | Timiskaming | 1976 |
| Saganash Lake | Fenton | Cochrane | 1977 |

Northeastern Region (Continued)

| LOCATION | TOWNSHIP | DISTRICT | YEAR (of collection) |
|--------------------|-------------|-------------|-------------------------|
| Lake Ste. Therese | Casgrain | Cochrane | 1977 |
| Sandy Lake (1) | I.R.9 | Parry Sound | 1976 |
| Sandy Lake (2) | I.R.9 | Parry Sound | 1976 |
| Sasaginaga Lake | Coleman | Timiskaming | 1976 |
| Schewabik Lake | Sadler | Sudbury | 1977 |
| Second Lake | - | Sudbury | 1976 |
| Seskinika Lake | Maisonville | Timiskaming | 1976 |
| Shack Lake | Seaton | Cochrane | 1977,76 |
| Shining Tree Lake | Leonard | Timiskaming | 1977 |
| Skeleton Lake | Mulligan | Timiskaming | 1976 |
| Smoke Lake | Peck | Nipissing | 1977,1976 |
| Snigisi Lake | I.R.9 | Parry Sound | 1976 |
| Sucker Lake | LaSalle | Nipissing | 1977 |
| Talon Lake | - | Nipissing | 1975 |
| Tank Lake | Proudfoot | Parry Sound | 1976 |
| Lake Temagami | - | Nipissing | 1976 |
| Timber Lake | Butler | Nipissing | 1970 |
| Lake Timiskaming | | Timiskaming | 1976 |
| Tomiko Lake | Grant | Nipissing | 1977,76 |
| Tony Lake | DeGaulle | Sudbury | 1977 |
| Trout Lake | Paxton | Parry Sound | 1976 |
| Upper French River | - | Parry Sound | 1976 |
| Vermilion Lake | Fairbank | Sudbury | 1977 |
| Victoria Lake | Morrisette | Timiskaming | 1976 |
| Wahwashkesh Lake | McKenzie | Parry Sound | 1977 |
| Wangoon Lake | Strathearn | Sudbury | 1977 |
| Watabeag Lake | Nordica | Timiskaming | 1976 |
| Watson Lake | Triquet | Sudbury | 1976 |
| Wawagoshe Lake | Ossian | Timiskaming | 1977 |
| Wendigo Lake | Bayly | Timiskaming | 1977 |
| Weshaygo Lake | 10E | Sudbury | 1977 |
| Wolverine Lake | Hanlan | Cochrane | 1977 |
| Woodcock Lake | I.R.9 | Parry Sound | 1976,75 |
| Zadi Lake | Neely | Cochrane | 1977 |

NORTHWESTERN REGION

| <u>LOCATION</u> | <u>TOWNSHIP</u> | <u>DISTRICT</u> | <u>YEAR</u> (of collection) |
|---------------------|-----------------|-----------------|--------------------------------|
| Apps Lake | - | Kenora | 1977 |
| Avery Lake | Avery | Kenora | 1977 |
| Badesdawa Lake | - | Kenora | 1977, 76, 75 |
| Ball Lake | - | Kenora | 1977, 76, 75 74. |
| Barrel Lake | - | Kenora | 1976 |
| Barton Lake | - | Kenora | 1977 |
| Big Sawbill Lake | - | Rainy River | 1977 |
| Bigshell Lake | - | Kenora | 1977 |
| Black Birch Lake | - | Kenora | 1977 |
| Blueberry Lake | - | Kenora | 1975 |
| Buck Lake | - | Kenora | 1975 |
| Bulging Lake | - | Kenora | 1977 |
| Chase Lake | - | Kenora | 1975 |
| Clay Lake | Redvers | Kenora | 1977, 76, 75 70. |
| Coli Lake | - | Kenora | 1977 |
| Crystal Lake | - | Kenora | 1977 |
| Culverson Lake | - | Kenora | 1977 |
| Delaney Lake | - | Kenora | 1975 |
| Eagle Lake | - | Kenora | 1975 |
| Eaglehead Lake | - | Kenora | 1977 |
| Eden Lake | - | Kenora | 1975 |
| Elizabeth Lake | - | Thunder Bay | 1977 |
| Entwine Lake | - | Rainy River | 1977 |
| Favel Lake | - | Kenora | 1975 |
| Garden Lake | - | Kenora | 1976 |
| Gaugino Lake | Nickle | Thunder Bay | 1975 |
| Gooseneck Lake | - | Kenora | 1977 |
| Grassy Lake | - | Rainy River | 1977, |
| Grassy Narrows Lake | - | Kenora | 1977, 76, 75 74 |
| Grist Lake | - | Kenora | 1977 |
| Guernsey Lake | - | Kenora | 1977 |
| Gulliver Lake | Cathcart | Kenora | 1976 |
| Gun Lake | - | Kenora | 1975, 74, 70 |

Northwestern Region (continued)

| LOCATION | TOWNSHIP | DISTRICT | YEAR (of collection) |
|--------------------------|----------|-------------|-------------------------|
| Hampton Lake | - | Kenora | 1977, |
| Kagianagami | - | Thunder Bay | 1977 |
| Kaginu | Gertrude | Thunder Bay | 1975 |
| Kawrinogans River | - | Kenora | 1976 |
| Keg Lake | Byshe | Kenora | 1977 |
| Kenogamisis Lake | - | Thunder Bay | 1977 |
| Keys Lake | - | Kenora | 1975 |
| Kirkness Lake | - | Kenora | 1977 |
| Kishikas Lake | - | Kenora | 1977 |
| Lac Seul | - | Kenora | 1975, 72, 71 |
| Little Manitouwadge Lake | Gertrude | Thunder Bay | 1975 |
| Little Mose Lake | Gemmell | Thunder Bay | 1975 |
| Madden Lake | - | Kenora | 1977 |
| Mameigwess Lake | Isley | Kenora | 1976 |
| Margot Lake | - | Kenora | 1977 |
| Marshalok Lake | - | Kenora | 1975 |
| Matchett Lake | - | Kenora | 1977 |
| Mattice Lake | - | Thunder Bay | 1977 |
| Mawn Lake | - | Thunder Bay | 1977 |
| Max Lake | - | Thunder Bay | 1977 |
| Maynard Lake | - | Kenora | 1976 |
| Meandering Lake | - | Kenora | 1975 |
| Meggisi Lake | - | Rainy River | 1977 |
| Mose Lake | Gemmell | Thunder Bay | 1975 |
| Nabimina Lake | - | Kenora | 1977 |
| Namakan Lake | - | Rainy River | 1976 |
| Oak Lake | - | Kenora | 1975, 71 |
| Opinnagau River | - | Kenora | 1977 |
| Oskawe Lake | - | Thunder Bay | 1976 |
| Paguchi Lake | - | Kenora | 1976 |
| Pakashkan Lake | - | Thunder Bay | 1977 |
| Peterson Lake | Heyson | Kenora | 1977 |
| Pickerel Lake | Gidley | Kenora | 1977 |
| Pickle Lake | Ponsford | Kenora | 1976, 75 |

Northwestern Region (continued)

| LOCATION | TOWNSHIP | DISTRICT | YEAR (of collection) |
|-----------------------------------|-----------|-------------|-------------------------|
| Pistol Lake | - | Kenora | 1975 |
| Ponsford Lake | - | Kenora | 1976 |
| Pringle Lake | - | Kenora | 1976 |
| Rainy Lake | - | Rainy River | 1977, 76 |
| Rainy River (Baudette) | - | Rainy River | 1977 |
| Rainy River (Ft. Frances) | - | Rainy River | 1977 |
| Rainy River (Long Sault Raps.) | - | Rainy River | 1977 |
| Red Lake | Dome | Kenora | 1977 |
| Reta Lake | - | Thunder Bay | 1977 |
| Rough Rock Lake | - | Kenora | 1975, |
| Routine Lake | - | Kenora | 1975 |
| Lake St. Joseph | - | Thunder Bay | 1976 |
| Sand Lake | - | Kenora | 1977, 76, 75, 74 |
| Santoy Lake | Tp. 81 | Thunder Bay | 1977 |
| Savoy Lake | Chartrand | Kenora | 1976 |
| Separation Lake | - | Kenora | 1977, 76, 75, 74 |
| Setting Net Lake | - | Kenora | 1977 |
| Shaco Lake | - | Thunder Bay | 1977 |
| Silcox Lake | - | Kenora | 1977 |
| Snib Lake | Heyson | Kenora | 1977 |
| Snook Lake | - | Kenora | 1975 |
| Snowshoe Lake | - | Kenora | 1976 |
| Sturgeon Lake | - | Kenora | 1976 |
| Sumach Lake | - | Kenora | 1975 |
| Sup Lake | - | Kenora | 1975 |
| Sutton Lake | - | Kenora | 1977 |
| Tetu Lake | - | Kenora | 1977 |
| The Dalles | - | Kenora | 1976, 75 |
| Toole Lake | - | Kenora | 1975 |
| Toothpick Lake | - | Kenora | 1975 |
| Trapline Lake | - | Kenora | 1975 |

Northwestern Region (continued)

| LOCATION | TOWNSHIP | DISTRICT | YEAR (of collection) |
|-----------------|----------|-------------|-------------------------|
| Tupman Lake | - | Rainy River | 1977 |
| Tutu Lake | - | Kenora | 1977 |
| Umfreville Lake | - | Kenora | 1976, 75, 74. |
| Unnamed (1) | - | Kenora | 1977 |
| Unnamed (2) | - | Kenora | 1977 |
| Wabigoon Lake | - | Kenora | 1976 |
| Wabigoon River | - | Kenora | 1975 |
| Wabikoba Lake | - | Thunder Bay | 1977 |
| Wavell Lake | - | Kenora | 1977 |
| Wawang Lake | - | Thunder Bay | 1977 |
| Windigokan Lake | Irwin | Thunder Bay | 1977 |
| Winisk River | - | Kenora | 1977 |

LAKE ONTARIO

| <u>STATISTICAL REGION</u> | <u>SAMPLING SITE</u> | <u>YEAR</u> (of collection) |
|---------------------------|----------------------|--------------------------------|
| 1 | Burlington Bay | 1976 |
| 1 | Credit River | 1975 |
| 1 | Port Dalhousie | 1976 |
| 1 | Humber River | 1975 |
| 1 | Toronto Waterfront | 1975 |
| 1 | Toronto Islands | 1975 |
| 2 | Duffin's Creek | 1975 |
| 2 | Frenchman's Bay | 1975 |
| 2 | Rouge River | 1975 |
| 4 | Bay of Quinte | 1976,75 |
| 5 | Bainsville | 1975 |
| 5 | Charlottenburg | 1975 |
| 5 | Cornwall Island | 1975 |
| 5 | GlenWalter | 1975,70 |
| 5 | Iroquois | 1975 |
| 5 | Summerstown | 1975 |
| 7 | Lake St. Francis | 1976 |

LAKE ERIE

| <u>STATISTICAL REGION</u> | <u>SAMPLING SITE</u> | <u>YEAR</u> (of <u>collection</u>) |
|---------------------------|----------------------|--|
| 1 | Pelee Island | 1977 |
| 1 | Point Pelee | 1977 |
| 1 | East Sister Island | 1977 |
| 1 | Colchester | 1977 |
| 1 | West Basin | 1976 |
| 1 | Pelee Passage | 1970 |
| 1 | Port Alma | 1977 |
| 2 | Wheatley | 1970 |
| 3 | Port Stanley | 1977 |
| 3 | Central Basin | 1976 |
| 4 | Long Point Bay | 1977 |
| 4 | Long Point Bay | 1970 |
| 5 | Eastern Basin | 1977 |

LAKE ST. CLAIR

Collections in 1977, 1976, 1974, 1973, 1972, 1971, and 1970

LAKE HURON

| <u>STATISTICAL REGION</u> | <u>SAMPLING SITE</u> | <u>YEAR</u> (of collection) |
|---------------------------|----------------------|--------------------------------|
| GB-3 | Camp Henry | 1977 |
| GB-3 | Davey Island | 1977 |
| BG-3 | Franklin Island | 1977 |
| GB-3 | Frederick Inlet | 1976 |
| GB-3 | Hale Island | 1977 |
| GB-3 | Moon River | 1976 |
| GB-3 | Pancake Island | 1977 |
| GB-3 | Prisque Bay | 1977 |
| GB-3 | Raft Island | 1976 |
| GB-3 | Sandy Island | 1977 |
| GB-3 | Se uin River | 1977 |
| GB-3 | Shawanaga Inlet | 1977 |
| GB-4 | Giant's Tomb Island | 1977 |
| GB-4 | Nottawasaga River | 1974 |
| GB-4 | Owen Sound | 1974 |
| GB-4 | Port Severn | 1977 |
| GB-4 | St. Vincent | 1977 |
| GB-4 | Thornbury | 1974 |
| H-3 | Douglas Point | 1974 |
| H-3 | Saugeen River | 1976-75 |
| H-4 | Goderich | 1974 |
| NC-1 | North Channel | 1976 |
| NC-1 | St. Mary's River | 1977 |
| NC-1 | Serpent River | 1976 |
| NC-1 | Lake George | 1975 |
| NC-2 | Spanish River | 1976-75 |

LAKE SUPERIOR

STATISTICAL REGION

SAMPLING SITE

YEAR
(of collection)

| | | |
|---|-------------------|---------------|
| 1 | Pine Bay | 1973 |
| 1 | Thunder Bay | 1973 |
| 2 | Black Bay | 1976,73 |
| 3 | Cape Nano | 1973 |
| 3 | Hughes Point | 1973 |
| 3 | Nipigon Bay | 1976 |
| 3 | Pancake Bay | 1977 |
| 3 | Red Rock | 1976 |
| 3 | Rossport Point | 1976,73 |
| 4 | Moss Island | 1973 |
| 5 | Jackfish Bay | 1973 |
| 5 | Peninsula Harbour | 1977,76,75,73 |
| 5 | Terrace Bay | 1977,76 |
| 6 | Michipicoten | 1973 |
| 7 | Batchawana Bay | 1977,73 |
| 7 | Eastern Basin | 1975 |
| 7 | Mamainse Point | 1976 |

TABLE 1
SPECIES LIST

| <u>DESIGNATION IN SUMMARIES</u> | <u>COMMON NAMES</u> | <u>PROPER NAMES</u> |
|---------------------------------|-------------------------------|---------------------------------|
| ALEWIFE | | <i>Alosa pseudoharengus</i> |
| B. BULLHEAD | Brown bullhead | <i>Ictalurus nebulosus</i> |
| B. CRAPPIE | Black crappie | <i>Pomoxis nigromaculatus</i> |
| BLUEGILL | | <i>Lepomis macrochirus</i> |
| BOWFIN | Dogfish, lawyer | <i>Amia calva</i> |
| BROOK S. | Brook silversides | <i>Labidesthes sicculus</i> |
| B. SHINER | Black shiner | <i>Notropis heterodon</i> |
| B. TROUT | Brown trout | <i>Salmo trutta</i> |
| BURBOT | Ellpout, lawyer, ling, maria | <i>Lota lota</i> |
| CARP | | <i>Cyprinus carpio</i> |
| C. CATFISH | Channel catfish | <i>Ictalurus punctatus</i> |
| CHINOOK | Chinook salmon | <i>Oncorhynchus tshawytscha</i> |
| CISCO | Cisco, lake herring, tullibee | <i>Coregonus artedii</i> |
| COHO | Choho salmon | <i>Oncorhynchus kitusch</i> |
| E. SHINER | Emerald shiner | <i>Notropis atherinoides</i> |
| EEL | American eel | <i>Anquilla rostrata</i> |
| F.W. DRUM | Freshwater drum, sheepshead | <i>Aplodinotus grunniens</i> |
| G. SHAD | Gizzard shad | <i>Dorosoma cepedianum</i> |
| GAR PIKE | Longnose gar | <i>Lepistosteus osseus</i> |
| GOLDEYE | | <i>Hiodon alosoides</i> |
| L. N. SUCKER | Longnose sucker | <i>Catostomus catostomus</i> |
| LOGPERCH | Logperch darter | <i>Pereina caprodes</i> |
| L.M. BASS | Largemouth bass | <i>Micropterus salmoides</i> |

| <u>DESIGNATION IN SUMMARIES</u> | <u>COMMON NAMES</u> | <u>PROPER NAMES</u> |
|-------------------------------------|--|---------------------------------|
| L. TROUT | Lake trout | <i>Salvelinus namaycush</i> |
| MENOMINEE | Round whitefish, round fish | <i>Prosopium cylindraceum</i> |
| MOONEYE | | <i>Hiodon tergisus</i> |
| MUSKIE | Maskinonge, lunge | <i>Esox masquinongy</i> |
| PIKE | muskellunge Northern pike | <i>Esox lucius</i> |
| P'SEED | Pumpkinseed, sunfish | <i>Lepomis gibbosus</i> |
| Q.C. SUCKER | Quillback carpsucker Quillback sucker | <i>Carpiocles cyprinus</i> |
| RAINBOW | Rainbow trout, steel- head | <i>Salmo gairdneri</i> |
| R.H. SUCKER | Redhorse sucker | <i>Moxostoma macrolepidotum</i> |
| R. BASS | Rock bass | <i>Ambloplites rupestris</i> |
| S. AUGER | | <i>Stizostideon canadense</i> |
| SISCOWET | "Fat" lake trout | <i>Salvelinus namaycush</i> |
| S.M. BASS | Smallmouth bass | <i>Micropterus dolomieu</i> |
| SMELT | Rainbow smelt, American smelt | <i>Osmerus mordax</i> |
| S. TROUT | Speckled trout, brook trout | <i>Salvelinus fontinalis</i> |
| T. PERCH | Troutperch | |
| WALLEYE | Pickrel, yellow pickrel dore | <i>Stizostideon vitreum</i> |
| W. BASS | White bass | <i>Morone chrysops</i> |
| W. CRAPPIE | White crappie | <i>Pomoxis annularis</i> |
| WHITEFISH | | <i>Coregonus clupeaformis</i> |
| W. PERCH | White perch | <i>Morone americanus</i> |
| W. SUCKER | White sucker | <i>Catostomus commersoni</i> |
| Y. BULLHEAD | Yellow bullhead | <i>Ictalurus natalis</i> |
| Y. PERCH | Yellow perch | <i>Perca flavescens</i> |

MERCURY DATA SUMMARIES

SOUTHWESTERN REGION



MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: THAMES RIVER, 1976

TOWNSHIP: ORFORD

COUNTY : KENT

LAT/LONG: 4235/8150

DATA SOURCE: MCE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | Σ ≥ 0.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|----------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 28 | 1.25 | 0.37- 3.10 | 54.6 | 42.0- 70.0 | 1776 | 640- 4400 | 96.4 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | B | C | D | L | D |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.001206 | 1.71631 | 0.565 | 50 | | 0.99 |

MERCURY DATA SUMMARIES

CENTRAL REGION



MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ANSTRUTHER LAKE, 1976
TOWNSHIP: ANSTRUTHER COUNTY : PETERBOROUGH LAT/LONG: 4445/7812
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | % > .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 19 | 0.29 | 0.06- 0.87 | 38.4 | 22.7- 53.3 | 642 | 80- 1620 | 26.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | A | A | A | A | B | C | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 + L^A A_1$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000008 | 2.82691 | 0.910 | 60 | | 0.81 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BALSAM LAKE, 1977
TOWNSHIP: FENELON COUNTY : VICTORIA LAT/LONG: 44 35/78 50
DATA SOURCE: NCE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE * | 14 | 0.36 | 0.09- | 0.75 | 47.8 | 26.5- | 58.9 | 1114 | 142- | 2296 | 21.4 |
| S.M. BASS * | 20 | 0.27 | 0.08- | 0.60 | 35.8 | 18.5- | 49.4 | 804 | 85- | 1927 | 5.0 |
| Y. PERCH * | 20 | 0.14 | 0.06- | 0.40 | 19.2 | 14.3- | 29.5 | 84 | 28- | 284 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | A | B | - | - |
| S.M. BASS | - | A | A | A | A | A | B | - | - | - |
| Y. PERCH | A | A | A | A | B | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000036 | 2.35654 | 0.908 | 50 | | 0.36 |
| S.M. BASS | 0.000205 | 1.98121 | 0.952 | 0 | | 0.00 |
| Y. PERCH | 0.000054 | 2.62856 | 0.928 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BASS LAKE, 1970

TOWNSHIP: ORILLIA

COUNTY : SIMCOE

LAT/LONG: 44 36/7929

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER | 8 | 0.10 | 0.08- | 0.12 | 43.4 | 35.6- | 48.3 | 886 | 535- | 1275 | 0.0 |
| RAINBOW | 1 | 0.13 | - | - | 43.2 | - | - | 1400 | - | - | - |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BELLA LAKE, 1977

TOWNSHIP: SINCLAIR

COUNTY : MUSKOKA

LAT/LONG: 4526/7902

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT * | 31 | 0.55 | 0.33- | 1.00 | 64.3 | 48.0- | 83.0 | 3532 | 1300- | 6750 | 48.4 |
| SMELT | 10 | 0.11 | 0.09- | 0.14 | 12.0 | 11.5- | 12.5 | 11 | 10- | 12 | 0.0 |
| S.M. BASS * | 16 | 0.37 | 0.18- | 0.56 | 34.8 | 24.0- | 41.0 | 808 | 175- | 1400 | 31.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | A | B | B | B |
| S.M. BASS | - | - | A | A | A | B | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000315 | 1.78501 | 0.728 | 60 | | 0.47 |
| S.M. BASS | 0.000589 | 1.80529 | 0.822 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BIG WIND LAKE, 1971

TOWNSHIP: OAKLEY

COUNTY : MUSKOKA

LAT/LONG: 45 3/7903

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|----------|---|---------------|------------|--------------|------------|--------------|---------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| B. TROUT | 3 | 0.22 | 0.12- 0.34 | 30.0 | 23.0- 39.0 | 350 | 96- 746 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BOSHUNG LAKE, 1977
TOWNSHIP: STANHOPE COUNTY : HALIBURTON LAT/LONG: 4504/7844
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 20 | 0.44 | 0.18- 0.89 | 44.7 | 18.0- 66.0 | 1161 | 50- 3400 | 30.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | A | A | A | A | A | B | B | B | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.007500 | 1.05370 | 0.816 | 60 | | 0.57 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BOW LAKE, 1976
 TOWNSHIP: METHUEN COUNTY : PETERBOROUGH LAT/LONG: 4442/7800
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|---|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 9 | 0.43 | 0.12- 1.80 | 32.0 | 21.6- 45.7 | 454 | 140- 1363 | 22.2 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | A | C | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000002 | 3.44493 | 0.938 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BUCHANAN LAKE, 1976

TOWNSHIP: BRUNEL COUNTY : MUSKOKA

LAT/LONG: 4519/7908

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B. TROUT | 20 | 0.17 | 0.11- | 0.34 | 25.2 | 20.2- | 30.0 | 173 | 99- | 312 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CHANDOS LAKE, 1977
TOWNSHIP: CHANDOS COUNTY : PETERBOROUGH LAT/LONG: 4448/7803
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | %>= .5 PPM |
|----------|-----|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 9 | 0.54 | 0.08- 1.30 | 50.1 | 33.7- 72.0 | 1639 | 300- 4800 | 33.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | A | B | B | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000001 | 3.32895 | 0.954 | 60 | | 0.65 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CHEDDAR LAKE, 1976
 TOWNSHIP: CARDIFF COUNTY : HALIBURTON LAT/LONG: 4458/7808
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| B. TROUT | * 11 | 0.09 | 0.02- 0.40 | 26.2 | 20.9- 45.7 | 309 | 112- 1250 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| B. TROUT | - | A | A | A | A | A | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| B. TROUT | 0.000004 | 2.98526 | 0.905 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CLAYTON LAKE, 1971
 TOWNSHIP: LIVINGSTONE COUNTY : HALIBURTON LAT/LONG: 4521/7845
 DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B. TROUT | 5 | 0.19 | 0.15- | 0.25 | 26.9 | 24.5- | 30.0 | 297 | 234- | 389 | 0.0 |

MERCURY DATA SUMMARY

ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CLEAR LAKE, 1971

TOWNSHIP: OAKLEY

COUNTY : MUSKOKA

LAT/LONG: 4502/7901

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 2 | 0.60 | 0.58- | 0.62 | 58.3 | 56.0- | 60.5 | 2460 | 2071- | 2849 | 100.0 |
| W. SUCKER | 4 | 0.15 | 0.08- | 0.20 | 40.8 | 38.0- | 42.5 | 687 | 606- | 766 | 0.0 |
| S.M. BASS | 5 | 0.46 | 0.14- | 0.74 | 37.0 | 27.0- | 42.0 | 818 | 288- | 1423 | 60.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE COUCHICHING, 1977

TOWNSHIP: ORILLIA

COUNTY : SIMCOE

LAT/LONG: 4440/7922

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|-------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 20 | 0.37 | 0.14- | 0.88 | 34.0 | 20.3- | 48.0 | 538 | 125- | 1500 | 10.0 |
| L.M. BASS * | 23 | 0.56 | 0.21- | 1.20 | 36.2 | 25.6- | 45.5 | 757 | 200- | 1500 | 56.5 |
| WALLEYE * | 15 | 0.55 | 0.20- | 1.20 | 52.0 | 38.1- | 62.8 | 1447 | 400- | 2500 | 40.0 |
| PIKE * | 16 | 0.35 | 0.11- | 0.93 | 74.1 | 52.0- | 104.1 | 2813 | 750- | 7250 | 18.8 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | A | B | B | - | - | - |
| L.M. BASS | - | - | A | A | A | B | C | - | - | - |
| WALLEYE | - | - | - | - | A | A | B | C | D | - |
| PIKE | - | - | - | - | - | - | A | A | A | A |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.001388 | 1.57742 | 0.901 | 0 | | 0.00 |
| L.M. BASS | 0.000228 | 2.15117 | 0.790 | 0 | | 0.00 |
| WALLEYE | 0.000001 | 3.34617 | 0.871 | 50 | | 0.41 |
| PIKE | 0.000044 | 2.05641 | 0.718 | 60 | | 0.20 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CRYSTALLINE LAKE, 1971

TOWNSHIP: LIVINGSTONE COUNTY : HALIBURTON

LAT/LONG: 4527/7845

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|---|---------------|------------|--------------|------------|--------------|---------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S. TROUT | 5 | 0.39 | 0.26- 0.53 | 25.0 | 14.0- 33.5 | 315 | 42- 673 | 20.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: DALRYMPLE LAKE, 1977

TOWNSHIP: CARDEN

COUNTY : ONTARIO

LAT/LONG: 4438/7907

DATA SOURCE: MOE

| SPECIES | | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|---|----|---------------|-------|------|--------------|-------|-------|--------------|-------|------|---------------|
| | | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * | 30 | 0.59 | 0.16- | 2.70 | 44.1 | 24.2- | 62.9 | 870 | 100- | 2200 | 56.7 |
| S.M. BASS | * | 20 | 0.56 | 0.14- | 1.20 | 36.5 | 18.0- | 51.3 | 785 | 100- | 2000 | 45.0 |
| PIKE | * | 30 | 0.28 | 0.14- | 0.69 | 61.5 | 27.2- | 100.0 | 1540 | 100- | 5800 | 10.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | B | C | D | - |
| S.M. BASS | - | A | A | A | A | B | C | D | - | - |
| PIKE | - | - | A | A | A | A | A | A | A | A |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + A_1 L$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000050 | 2.43889 | 0.826 | 50 | | 0.70 |
| S.M. BASS | 0.000241 | 2.12103 | 0.944 | 0 | | 0.00 |
| PIKE | 0.001464 | 1.26344 | 0.726 | 60 | | 0.26 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: DOG LAKE, 1976
TOWNSHIP: EYRE COUNTY : HALIBURTON LAT/LONG: 45 13/78 30
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B. TROUT | 19 | 0.12 | 0.06- | 0.23 | 32.5 | 24.3- | 49.3 | 336 | 125- | 1150 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: DUMMER LAKE, 1977
 TOWNSHIP: DUMMER COUNTY : PETERBOROUGH LAT/LONG: 44 32/78 06
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | % > .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 12 | 0.22 | 0.04- | 0.33 | 43.0 | 23.7- | 54.9 | 775 | 85- | 1474 | 0.0 |
| Y. PERCH | 15 | 0.06 | 0.04- | 0.09 | 16.6 | 14.8- | 18.8 | 38 | 28- | 57 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | A | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000032 | 2.32802 | 0.941 | 50 | | 0.29 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: EELS LAKE, 1976
 TOWNSHIP: ANSTRUTHER COUNTY : HALIBURTON LAT/LONG: 4454/7808
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 13 | 0.09 | 0.05- 0.35 | 34.9 | 26.4- 57.1 | 488 | 225- 1687 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | A | A | A | A | A | A | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000126 | 1.81378 | 0.759 | 60 | | 0.21 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: FAIRY LAKE, 1977

TOWNSHIP: CHAFFEY

COUNTY : MUSKOKA

LAT/LONG: 4520/7911

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT * | 28 | 2.68 | 0.67- 4.40 | 64.0 | 30.5- 84.0 | 4163 | 400- 9250 | 100.0 |
| S.M. BASS * | 20 | 1.46 | 0.28- 2.90 | 31.4 | 23.0- 44.0 | 441 | 75- 1175 | 90.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | B | C | D | D | D | D | D |
| S.M. BASS | - | - | B | C | D | D | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.005664 | 1.46162 | 0.830 | 60 | | 2.25 |
| S.M. BASS | 0.000285 | 2.45106 | 0.869 | 0 | | 0.00 |

MERCURY DATA SUMMARY

ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GLOUCESTER PL, 1971

TOWNSHIP: BAXTER

COUNTY : MUSKOKA

LAT/LONG: 4451/7942

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 1 | 0.53 | - | - | 52.0 | - | - | 1317 | - | - | - |
| R. BASS | 1 | 0.31 | - | - | 19.2 | - | - | 184 | - | - | - |
| C. CATFISH | 2 | 0.11 | 0.07- | 0.14 | 24.6 | 23.2- | 26.0 | 249 | 225- | 272 | 0.0 |
| Y. PERCH | 4 | 0.50 | 0.36- | 0.70 | 41.3 | 38.0- | 46.0 | 873 | 622- | 1242 | 50.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GO HOME LAKE, 1977

SAMPLING SITE: GIBSON

COUNTY: MUSKOKA

LAT/LONG: 4501/7951

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 30 | 1.05 | 0.47- 2.90 | 39.1 | 27.3- 73.0 | 815 | 250- 4300 | 96.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | B | B | C | D | D | D | D |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000917 | 1.89904 | 0.872 | 50 | | 1.55 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HUNTER'S BAY, 1977
TOWNSHIP: STISTED COUNTY : MUSKOKA LAT/LONG: 4519/7914
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 20 | 1.23 | 0.23- 3.70 | 29.9 | 19.5- 43.0 | 485 | 75- 1350 | 65.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | B | C | D | D | D | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000087 | 2.74394 | 0.898 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE JOSEPH, 1977

TOWNSHIP: HUMPHREY COUNTY : MUSKOKA

LAT/LONG: 4510/7944

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| SMELT | * 10 | 0.14 | 0.06- | 0.44 | 12.4 | 11.0- | 15.0 | 12 | 8- | 16 | 0.0 |
| L. TROUT | * 25 | 0.37 | 0.14- | 0.63 | 57.0 | 45.5- | 63.0 | 2282 | 1000- | 3450 | 28.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| SMELT | A | C | - | - | - | - | - | - | - | - |
| L. TROUT | - | - | - | - | - | A | A | B | C | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| SMELT | 0.000001 | 4.90600 | 0.916 | 0 | | 0.00 |
| L. TROUT | 0.000000 | 3.80623 | 0.737 | 60 | | 0.43 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE JOSEPH, 1976

TOWNSHIP: MEDORA

COUNTY : MUSKOKA

LAT/LONG: 4510/7944

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 11 | 0.16 | 0.02- | 0.52 | 62.8 | 53.0- | 77.0 | 2659 | 1200- | 4000 | 9.1 |
| L. TROUT | 8 | 0.53 | 0.21- | 0.85 | 57.1 | 51.0- | 64.0 | 1844 | 1200- | 2680 | 62.5 |
| S.M. BASS | 3 | 0.81 | 0.61- | 1.00 | 44.0 | 43.0- | 45.0 | 1458 | 1375- | 1500 | 100.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE JOSEPH, 1970

TOWNSHIP: MEDORA COUNTY : MUSKOKA

LAT/LONG: 4510/7944

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 15 | 0.34 | 0.21- 0.46 | 60.4 | 43.2- 73.7 | 2628 | 680- 5210 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | A | A | A | B |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.001377 | 1.33763 | 0.738 | 60 | | 0.33 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KANSHE LAKE, 1977

TOWNSHIP: MORRISON

COUNTY : MUSKOKA

LAT/LONG: 4450/7918

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | ≥0.5 PPM |
|-------------|---|---------------|------------|--------------|------------|--------------|----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 5 | 0.67 | 0.32- 0.97 | 31.1 | 24.1- 38.1 | 454 | 184- 851 | 60.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | A | B | B | D | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000039 | 2.81802 | 0.977 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KAWACAMA LAKE, 1977
 TOWNSHIP: MCCLINTOCK COUNTY : HALIBURTON LAT/LONG: 4518/7845
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 29 | 0.17 | 0.08- 0.43 | 38.3 | 25.6- 51.0 | 485 | 125- 1250 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | A | A | A | A | A | A | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000121 | 1.95550 | 0.690 | 60 | | 0.36 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KOSHLONG LAKE, 1976
TOWNSHIP: GLAMORGAN COUNTY : HALIBUTON LAT/LONG: 4458/7829
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | >= .5 PPM |
|------------|----|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT * | 16 | 0.99 | 0.32- 1.90 | 61.4 | 40.5- 78.5 | 2297 | 500- 4100 | 87.5 |
| SMELT | 3 | 0.26 | 0.23- 0.27 | 19.3 | 16.6- 20.8 | 42 | 31- 50 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | B | C | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000043 | 2.42881 | 0.888 | 60 | | 0.89 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KOSHLONG LAKE, 1977
TOWNSHIP: CLAMORGAN COUNTY : HALIBURTON LAT/LCNC: 4458/7829
DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 12 | 0.91 | 0.39- 1.50 | 38.2 | 29.8- 43.8 | 1003 | 341- 1476 | 91.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | - | A | B | C | D | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000052 | 2.66250 | 0.836 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE OF BAYS, 1977
TOWNSHIP: LAKE OF BAYS COUNTY : MUSKOKA LAT/LONG: 4515/7900
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|----------|------|---------------|-----------|--------------|----------|--------------|-------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| SMELT | * 10 | 0.10 | 0.08-0.11 | 10.0 | 9.0-11.0 | 8 | 7-9 | 0.0 |
| L. TROUT | 1 | 1.20 | - | 75.0 | - | 6920 | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| SMELT | A | - | - | - | - | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| SMELT | 0.003322 | 1.46159 | 0.650 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE OF EAYS, 1976

TOWNSHIP: FRANKLIN

COUNTY : MUSKOKA

LAT/LONG: 4515/7904

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|------------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 22 | 1.37 | 0.62- 2.00 | 71.1 | 52.0- 88.0 | 440.7 | 1500- 7350 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | - | C | C | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.011643 | 1.11269 | 0.572 | 60 | | 1.11 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LITTLE LAKE, 1977

TOWNSHIP: -

COUNTY: SIMCOE

LAT/LONG: 4444/7953

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % ≥ .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L.M. BASS * | 16 | 0.50 | 0.30- 0.90 | 35.5 | 26.0- 43.0 | 641 | 190- 1180 | 43.8 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L.M. BASS | - | - | A | A | A | B | C | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|-----------|----------|---------|-------|---------|------------|
| L.M. BASS | 0.000699 | 1.82925 | 0.850 | 0 | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE LOUISA, 1976

TOWNSHIP: LAWRENCE

DISTRICT: HALIBUTON

LAT/LONG: 4528/7329

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|----------|----------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 10 | 0.32 | 0.20- 0.41 | 40.2 | 35.5- 49.0 | 528 | 350- 975 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | A | A | B | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000931 | 1.57673 | 0.672 | 60 | | 0.59 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MARY LAKE, 1977

TOWNSHIP: STEPHENSON COUNTY : MUSKOKA

LAT/LONG: 4515/7915

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|-----------|------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| SMELT | * 10 | 0.49 | 0.26- 0.84 | 15.5 | 13.0- 17.5 | 28 | 18- 35 | 40.0 |
| L. TROUT | * 30 | 3.27 | 0.31- 9.50 | 57.5 | 31.5- 87.0 | 2811 | 275- 7000 | 90.0 |
| S.M. BASS | * 21 | 1.13 | 0.43- 2.70 | 31.6 | 23.0- 40.0 | 597 | 250- 1300 | 90.5 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| SMELT | A | C | - | - | - | - | - | - | - | - |
| L. TROUT | - | - | - | A | B | C | D | D | D | D |
| S.M. BASS | - | - | B | B | C | D | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| SMELT | 0.000008 | 4.02812 | 0.931 | 0 | | 0.00 |
| L. TROUT | 0.000032 | 2.77615 | 0.947 | 60 | | 2.77 |
| S.M. BASS | 0.000042 | 2.93306 | 0.854 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MCKAY LAKE, 1971

TOWNSHIP: DRAPER COUNTY : MUSKOKA

LAT/LONG: 450 3/7910

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS | 3 | 0.43 | 0.30- | 0.53 | 25.2 | 24.0- | 26.0 | 237 | 21.7- | 260 | 33.3 |
| R. BASS | 1 | 0.25 | - | - | 20.0 | - | - | 277 | - | - | - |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MILLICAMP LAKE, 1971
TOWNSHIP: MCCLINTOCK COUNTY : HALIBURTON LAT/LONG: 4519/7850
DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|-----|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S. TROUT | * 14 | 0.26 | 0.11- | 0.59 | 19.4 | 15.0- | 26.5 | 106 | 40- | 291 | 14.3 |
| RAINBOW | 1 | 0.60 | - | - | 34.0 | - | - | 590 | - | - | - |
| LAKE CHUB | 2 | 0.37 | 0.33- | 0.41 | 19.3 | 18.0- | 20.5 | 90 | 60- | 120 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S. TROUT | A | A | A | E | C | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| S. TROUT | 0.000145 | 2.49729 | 0.826 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MISKWABI LAKE, 1977
TOWNSHIP: DUDLEY COUNTY: HALIBURTON LAT/LONG: 4503/7819
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS | 17 | 0.35 | 0.23- | 0.53 | 29.5 | 21.0- | 38.5 | 401 | 50- | 1000 | 5.9 |
| L. TROUT * | 20 | 0.13 | 0.03- | 0.40 | 46.4 | 29.0- | 67.7 | 867 | 200- | 2100 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | A | A | A | A | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000012 | 2.39976 | 0.890 | 60 | | 0.22 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MISSISSAGUA LAKE, 1977
TOWNSHIP: HARVEY COUNTY: PETERBOROUGH LAT/LONG: 4442/7819
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L.M. BASS | 5 | 0.36 | 0.23- | 0.58 | 22.9 | 18.8- | 26.5 | 120 | 50- | 200 | 20.0 |
| S.M. BASS * | 20 | 0.54 | 0.31- | 1.10 | 23.3 | 19.1- | 27.7 | 151 | 100- | 280 | 55.0 |
| L. TROUT * | 22 | 0.38 | 0.16- | 0.87 | 42.2 | 27.0- | 70.0 | 818 | 200- | 3000 | 22.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | B | B | C | - | - | - | - | - |
| L. TROUT | - | - | A | A | A | A | B | B | B | B |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000628 | 2.13398 | 0.552 | 0 | | 0.00 |
| L. TROUT | 0.001589 | 1.44480 | 0.737 | 60 | | 0.59 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE MUSKOKA, 1977

TOWNSHIP: MUSKOKA COUNTY : MUSKOKA

LAT/LONG: 4500/7925

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>= .5 PPM |
|---------|---|---------------|-------|------|--------------|-------|------|--------------|-------|----|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| SMELT | 5 | 0.34 | 0.19 | 0.45 | 13.0 | 13.0 | 13.0 | 19 | 19 | 19 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE MUSKOKA, 1976

TOWNSHIP: MUSKOKA

COUNTY : MUSKOKA

LAT/LONG: 4500/7925

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT * | 24 | 2.96 | 1.80- | 3.90 | 71.2 | 51.0- | 89.5 | 358.3 | 1250- | 5850 | 100.0 |
| PIKE | 1 | 1.00 | - | - | 66.0 | - | - | 1900 | - | - | - |
| R. BASS | 6 | 0.71 | 0.44- | 0.99 | 18.4 | 17.2- | 20.0 | 103 | 95- | 120 | 83.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | - | D | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.122075 | 0.74505 | 0.472 | 60 | | 2.58 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MUSKOKA LAKE, 1970
TOWNSHIP: MUSKOKA COUNTY : MUSKOKA LAT/LONG: 4500/7925
DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 14 | 0.74 | 0.27- 1.15 | 59.7 | 30.7- 69.3 | 2676 | 215- 4258 | 85.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | A | B | B | C | C |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.001721 | 1.47765 | 0.916 | 60 | | 0.73 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: NOTTAWASAGA RIVER, 1977

TOWNSHIP: SUNNIDALE COUNTY : SIMCOE

LAT/LONG: 4429/8000

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 15 | 0.66 | 0.16- 1.60 | 50.5 | 29.8- 71.8 | 2027 | 250- 5500 | 46.7 |
| Y. PERCH | * 15 | 0.34 | 0.18- 0.55 | 24.4 | 16.5- 38.0 | 219 | 65- 420 | 13.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | A | B | C | D | D |
| Y. PERCH | A | A | A | A | A | B | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000013 | 2.71331 | 0.979 | 50 | | 0.54 |
| Y. PERCH | 0.037250 | 0.68087 | 0.549 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OXTONGUE LAKE, 1971
 TOWNSHIP: MCCLINTOCK COUNTY : HALIBURTON LAT/LONG: 4522/7855
 DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS | 10 | 0.33 | 0.24- | 0.55 | 20.8 | 18.5- | 27.0 | 142 | 91- | 325 | 10.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OXTONGUE LAKE, 1970
TOWNSHIP: MCCLINTOCK COUNTY : HALIBURTON LAT/LONG: 4522/7855
DATA SOURCE: PEL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS | 1 | 0.53 | - | - | 21.6 | - | - | 113 | - | - | - |
| CISCO | 5 | 0.41 | 0.32- | 0.53 | 23.0 | 20.8- | 24.4 | 90 | 79- | 102 | 20.0 |
| WHITEFISH | 5 | 0.38 | 0.14- | 0.63 | 28.2 | 25.7- | 31.0 | 172 | 125- | 238 | 40.0 |
| L. TROUT | 1 | 2.22 | - | - | 66.0 | - | - | 2404 | - | - | - |
| BURBOT | 5 | 1.35 | 0.89- | 1.67 | 67.9 | 63.0- | 72.1 | 2150 | 1542- | 2722 | 100.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PAUDASH LAKE, 1976
TOWNSHIP: CARDIFF COUNTY : HALIBURTON LAT/LONG: 4458/7803
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | >= .5 PPM |
|-----------|---|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS | 1 | 0.52 | - | 40.6 | - | 910 | - | - |
| WALLEYE * | 9 | 0.42 | 0.21- 0.75 | 47.5 | 40.6- 55.8 | 1034 | 675- 1500 | 33.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | A | B | C | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000000 | 3.84348 | 0.893 | 50 | | 0.47 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PIGEON LAKE, 1977

TOWNSHIP: - COUNTY : VICTORIA

LAT/LONG: 4427/78 30

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | * 20 | 0.07 | 0.02- | 0.15 | 18.6 | 14.0- | 24.1 | 86 | 28- | 170 | 0.0 |
| WALLEYE | * 20 | 0.28 | 0.08- | 1.00 | 45.1 | 26.8- | 66.9 | 961 | 142- | 2949 | 10.0 |
| L.M. BASS | * 20 | 0.15 | 0.04- | 0.47 | 29.8 | 15.6- | 44.9 | 526 | 57- | 1588 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | A | A | A | A | A | - | - | - | - | - |
| WALLEYE | - | - | A | A | A | A | A | B | B | - |
| L.M. BASS | A | A | A | A | A | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.000236 | 1.92220 | 0.611 | 0 | | 0.00 |
| WALLEYE | 0.000080 | 2.11140 | 0.850 | 50 | | 0.31 |
| L.M. BASS | 0.000596 | 1.59220 | 0.819 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PROSPECT LAKE, 1971
 TOWNSHIP: DRAPER COUNTY : MUSKOKA LAT/LONG: 4459/7908
 DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|---|---------------|------------|--------------|------------|--------------|----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| CISCO | 6 | 0.43 | 0.36- 0.48 | 21.4 | 21.0- 22.0 | 260 | 231- 295 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RICE LAKE, 1977
TOWNSHIP: - COUNTY : PETERBOROUGH LAT/LONG: 4412/7810
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE * | 20 | 0.42 | 0.12- | 1.30 | 50.2 | 24.6- | 65.8 | 1256 | 113- | 2722 | 30.0 |
| Y. PERCH * | 20 | 0.06 | 0.03- | 0.15 | 17.2 | 11.9- | 22.2 | 86 | 28- | 198 | 0.0 |
| L.M. BASS * | 20 | 0.14 | 0.07- | 0.38 | 29.9 | 21.9- | 42.0 | 472 | 142- | 1247 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | A | B | B | - |
| Y. PERCH | A | A | A | - | - | - | - | - | - | - |
| L.M. BASS | - | A | A | A | A | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000061 | 2.23027 | 0.805 | 50 | | 0.38 |
| Y. PERCH | 0.004229 | 0.92567 | 0.505 | 0 | | 0.00 |
| L.M. BASS | 0.000193 | 1.91673 | 0.881 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ROGER LAKE, 1971
TOWNSHIP: LIVINGSTONE COUNTY : HALIBURTON LAT/LONG: 4526/7845
DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|-----|---------------|------------|--------------|------------|--------------|---------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S. TROUT | * 7 | 0.11 | 0.08- 0.17 | 19.2 | 15.5- 27.0 | 109 | 49- 352 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S. TROUT | A | A | A | A | A | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| S. TROUT | 0.001668 | 1.40010 | 0.967 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ROSSEAU, 1977
TOWNSHIP: CARDWELL COUNTY : MUSKOKA LAT/LONG: 4510/7935
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| SMELT | 5 | 0.18 | 0.12- | 0.29 | 13.5 | 13.5- | 13.5 | 18 | 18- | 18 | 0.0 |
| L. TROUT * | 30 | 0.97 | 0.32- | 1.70 | 56.3 | 35.0- | 79.5 | 2198 | 600- | 4550 | 93.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | B | B | B | C | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.009598 | 1.13471 | 0.536 | 60 | | 1.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ROSSEAU, 1970
TOWNSHIP: MEDORA COUNTY : MUSKOKA LAT/LONG: 4510/7935
DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 14 | 0.63 | 0.27- 1.00 | 54.5 | 31.2- 69.9 | 1659 | 227- 3511 | 71.4 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | A | B | B | C | C |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.001379 | 1.52306 | 0.914 | 60 | | 0.70 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ROSSEAU, 1967
 TOWNSHIP: MEDORA COUNTY : MUSKOKA LAT/LONG: 4510/7935
 DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|----|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| CISCO | 19 | 0.40 | 0.20- 0.71 | 35.3 | 33.0- 43.0 | 542 | 340- 1100 | 21.1 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ST. JOHN, 1977

SAMPLING SITE: RAMA

COUNTY: ONTARIO

LAT/LONG: 4441/7919

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 14 | 0.52 | 0.18- | 1.00 | 54.9 | 31.8- | 74.0 | 1139 | 200- | 2500 | 50.0 |
| WALLEYE | * 16 | 0.96 | 0.22- | 1.70 | 43.1 | 29.5- | 61.4 | 998 | 280- | 2500 | 93.8 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | A | B | B | B | C |
| WALLEYE | - | - | - | B | B | B | C | C | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000203 | 1.94783 | 0.901 | 60 | | 0.59 |
| WALLEYE | 0.012929 | 1.13240 | 0.559 | 50 | | 1.09 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ST. JOHN, 1971

TOWNSHIP: RAMA COUNTY : ONTARIO

LAT/LONG: 4441/7919

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| R. BASS | 2 | 0.48 | 0.40- 0.56 | 25.0 | 24.0- 26.0 | 359 | 297- 420 | 50.0 |
| P. SEED | 1 | 0.18 | - | 18.0 | - | 155 | - | - |
| WALLEYE * | 5 | 0.60 | 0.19- 0.90 | 40.4 | 18.0- 54.0 | 798 | 84- 1354 | 60.0 |
| C. CATFISH* | 12 | 0.12 | 0.07- 0.17 | 29.9 | 27.0- 38.0 | 455 | 340- 614 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | A | A | A | A | B | B | C | - | - |
| C. CATFISH | - | - | A | A | A | A | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|------------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.002636 | 1.45465 | 0.989 | 50 | | 0.78 |
| C. CATFISH | 0.000954 | 1.40722 | 0.621 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SCUGOG, 1977

TOWNSHIP: -

COUNTY : ONTARIO

LAT/LONG: 4410/7850

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | * 20 | 0.14 | 0.02- | 0.45 | 22.5 | 16.2- | 31.4 | 152 | 57- | 369 | 0.0 |
| WALLEYE | * 20 | 0.10 | 0.04- | 0.23 | 45.5 | 22.2- | 66.6 | 1140 | 113- | 2864 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | A | A | A | A | A | - | - | - | - | - |
| WALLEYE | - | A | A | A | A | A | A | A | A | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.000039 | 2.54271 | 0.606 | 0 | | 0.00 |
| WALLEYE | 0.002577 | 0.93922 | 0.729 | 50 | | 0.10 |

MERCURY DATA SUMMARY

ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SCUGOG, 1970

TOWNSHIP: ONTARIO COUNTY : VICTORIA

LAT/LONG: 4410/7850

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ > .5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|-------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| MUSKIE | 3 | 0.22 | 0.10- | 0.33 | 94.8 | 88.9- | 104.1 | 6059 | 4623- | 8694 | 0.0 |
| L.M. BASS | 7 | 0.18 | 0.11- | 0.34 | 39.9 | 26.7- | 48.3 | 1221 | 290- | 2108 | 0.0 |
| WALLEYE | 6 | 0.08 | 0.06- | 0.10 | 54.1 | 46.2- | 62.2 | 1985 | 972- | 3260 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SCUGOG RIVER, 1976

TOWNSHIP: FENELON

COUNTY : VICTORIA

LAT/LONG: 4424/7845

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 19 | 0.18 | 0.06- | 0.72 | 45.1 | 30.5- | 71.2 | 1051 | 340- | 2667 | 5.3 |
| CARP | * 17 | 0.06 | 0.02- | 0.18 | 39.8 | 27.1- | 69.8 | 1637 | 539- | 5788 | 0.0 |
| L.M. BASS | * 11 | 0.23 | 0.10- | 0.59 | 37.7 | 31.7- | 47.2 | 1096 | 532- | 2213 | 18.2 |
| S.M. BASS | * 9 | 0.14 | 0.11- | 0.17 | 32.8 | 27.5- | 36.2 | 678 | 426- | 908 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | A | A | A | A | B |
| CARP | - | - | A | A | A | A | A | A | A | A |
| L.M. BASS | - | - | - | A | A | A | B | - | - | - |
| S.M. BASS | - | - | A | A | A | A | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000114 | 1.89942 | 0.716 | 50 | | 0.19 |
| CARP | 0.001364 | 0.98855 | 0.492 | 0 | | 0.00 |
| L.M. BASS | 0.000000 | 4.00822 | 0.952 | 0 | | 0.00 |
| S.M. BASS | 0.001484 | 1.29117 | 0.703 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SEVERN RIVER, 1977
TOWNSHIP: BAXTER COUNTY : MUSKOKA LAT/LONG: 4451/7942
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 13 | 0.57 | 0.31- | 1.00 | 38.2 | 25.0- | 44.5 | 1138 | 250- | 1800 | 61.5 |
| WALLEYE | 14 | 1.28 | 0.86- | 2.20 | 53.6 | 49.0- | 65.0 | 2089 | 1600- | 3600 | 100.0 |
| PIKE * | 15 | 0.32 | 0.13- | 0.56 | 52.6 | 33.3- | 74.5 | 1473 | 250- | 3750 | 6.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | A | A | A | B | C | - | - | - |
| PIKE | - | - | - | A | A | A | A | A | B | B |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000421 | 1.96538 | 0.878 | 0 | | 0.00 |
| PIKE | 0.000270 | 1.77186 | 0.946 | 60 | | 0.38 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SILENT LAKE, 1976
TOWNSHIP: CARDIFF COUNTY : HALIBURTON LAT/LONG: 4455/78 04
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|-------------|--------------|-------------|--------------|------------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 15 | 0.24 | 0.06-- 0.92 | 45.0 | 26.6-- 69.8 | 1018 | 140-- 3150 | 6.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | A | A | A | A | A | A | B | B |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000023 | 2.37206 | 0.969 | 60 | | 0.39 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SIMCOE, 1977

TOWNSHIP: GEORGINA

COUNTY : YORK

LAT/LONG: 4425/7925

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|-------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 28 | 0.21 | 0.06- | 0.82 | 28.3 | 19.4- | 43.4 | 391 | 100- | 1300 | 3.6 |
| PIKE * | 22 | 0.20 | 0.07- | 0.47 | 67.4 | 51.2- | 105.0 | 1970 | 760- | 6500 | 0.0 |
| WALLEYE * | 27 | 0.60 | 0.10- | 1.60 | 53.8 | 29.0- | 75.0 | 1881 | 220- | 4940 | 44.4 |
| CISCO | 13 | 0.13 | 0.09- | 0.17 | 31.1 | 26.8- | 37.0 | 235 | 100- | 420 | 0.0 |
| Y. PERCH * | 18 | 0.20 | 0.07- | 0.42 | 23.6 | 12.0- | 31.0 | 171 | 20- | 370 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | A | B | B | - | - | - |
| PIKE | - | - | - | - | - | - | A | A | A | A |
| WALLEYE | - | - | - | A | A | A | B | B | C | D |
| Y. PERCH | A | A | A | A | A | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000100 | 2.25420 | 0.890 | 0 | | 0.00 |
| PIKE | 0.000011 | 2.29657 | 0.761 | 60 | | 0.13 |
| WALLEYE | 0.000006 | 2.83435 | 0.889 | 50 | | 0.37 |
| Y. PERCH | 0.001144 | 1.60564 | 0.658 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SIMCOE, 1976

TOWNSHIP: - COUNTY : SIMCOE

LAT/LONG: 4425/7920

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|------------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 12 | 0.35 | 0.18- 0.56 | 69.9 | 57.2- 85.3 | 3500 | 1540- 6680 | 25.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | - | A | A | A | B |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000014 | 2.37079 | 0.932 | 60 | | 0.23 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SIMCOE, 1976
 TOWNSHIP: - COUNTY : SIMCOE LAT/LONG: 4425/7920
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 50 | 0.98 | 0.18- 1.70 | 66.2 | 36.6- 80.1 | 3416 | 440- 6905 | 84.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | A | A | B | B | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000016 | 2.61895 | 0.857 | 50 | | 0.44 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SIMCOE, 1975

TOWNSHIP: - COUNTY : SIMCOE

LAT/LONG: 4425/7920

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 15 | 0.73 | 0.15- | 1.28 | 60.7 | 48.0- | 74.0 | 2307 | 659- | 4740 | 86.7 |
| S.M. BASS | 10 | 0.13 | 0.09- | 0.18 | 29.1 | 19.0- | 34.5 | 431 | 95- | 697 | 0.0 |
| W. SUCKER | 6 | 0.14 | 0.07- | 0.19 | 43.5 | 39.0- | 46.0 | 899 | 777- | 1003 | 0.0 |
| PIKE | 3 | 0.16 | 0.05- | 0.31 | 63.0 | 43.0- | 86.0 | 2251 | 722- | 4455 | 0.0 |
| WHITEFISH | 13 | 0.03 | 0.02- | 0.05 | 46.9 | 44.0- | 51.0 | 1136 | 935- | 1401 | 0.0 |
| L. TROUT | 16 | 0.24 | 0.13- | 0.39 | 62.3 | 55.0- | 71.0 | 3097 | 2013- | 3630 | 0.0 |
| BURBOT | 5 | 0.53 | 0.45- | 0.65 | 76.8 | 70.0- | 86.0 | 3240 | 2670- | 3595 | 80.0 |
| Y. PERCH | * 12 | 0.21 | 0.06- | 0.49 | 23.8 | 14.0- | 30.0 | 177 | 20- | 359 | 0.0 |
| R. BASS | * 10 | 0.16 | 0.08- | 0.25 | 21.5 | 17.0- | 25.0 | 234 | 114- | 385 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | A | B | B | C | D |
| Y. PERCH | A | A | A | A | A | - | - | - | - | - |
| R. BASS | - | A | A | A | A | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000001 | 3.40082 | 0.684 | 50 | | 0.35 |
| Y. PERCH | 0.000345 | 1.98237 | 0.799 | 0 | | 0.00 |
| R. BASS | 0.000330 | 2.00682 | 0.735 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SIMCOE, 1971

TOWNSHIP: - COUNTY : SIMCOE

LAT/LONG: 4425/7920

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER * | 12 | 0.09 | 0.05- | 0.14 | 41.4 | 35.0- | 48.0 | 732 | 428- | 1239 | 0.0 |
| E. SHINER | 4 | 0.08 | 0.06- | 0.11 | 7.6 | 5.1- | 10.0 | 3 | 1- | 6 | 0.0 |
| L.M. BASS * | 12 | 0.25 | 0.14- | 0.50 | 30.8 | 19.3- | 42.2 | 579 | 123- | 1557 | 8.3 |
| S.M. BASS * | 12 | 0.27 | 0.13- | 0.82 | 31.1 | 19.3- | 48.3 | 637 | 110- | 1828 | 8.3 |
| Y. PERCH * | 12 | 0.30 | 0.15- | 0.80 | 25.8 | 20.6- | 31.8 | 209 | 96- | 380 | 8.3 |
| PIKE * | 12 | 0.19 | 0.12- | 0.44 | 69.8 | 54.9- | 96.5 | 2221 | 1015- | 5448 | 0.0 |
| WALLEYE * | 12 | 0.55 | 0.18- | 2.04 | 53.5 | 30.0- | 71.6 | 1966 | 280- | 4273 | 33.3 |
| WHITEFISH | 12 | 0.04 | 0.03- | 0.07 | 43.8 | 40.4- | 47.7 | 733 | 585- | 935 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | - | - | - | A | A | A | - | - | - |
| L.M. BASS | - | A | A | A | A | A | B | - | - | - |
| S.M. BASS | - | A | A | A | A | A | B | - | - | - |
| Y. PERCH | - | A | A | A | A | - | - | - | - | - |
| PIKE | - | - | - | - | - | - | A | A | A | A |
| WALLEYE | - | - | - | A | A | A | A | B | B | C |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| W. SUCKER | 0.000009 | 2.44761 | 0.803 | 0 | | 0.00 |
| L.M. BASS | 0.001892 | 1.39565 | 0.739 | 0 | | 0.00 |
| S.M. BASS | 0.002604 | 1.32935 | 0.883 | 0 | | 0.00 |
| Y. PERCH | 0.000726 | 1.82373 | 0.643 | 0 | | 0.00 |
| PIKE | 0.000068 | 1.85346 | 0.884 | 60 | | 0.14 |
| WALLEYE | 0.000070 | 2.19519 | 0.796 | 50 | | 0.37 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SIMCOE, 1970

TOWNSHIP: - COUNTY : SIMCOE

LAT/LONG: 4425/7920

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| BURBOT | * 10 | 0.39 | 0.14- | 0.55 | 69.8 | 33.0- | 81.3 | 2357 | 285- | 3326 | 30.0 |
| W. SUCKER | * 12 | 0.17 | 0.09- | 0.23 | 43.0 | 38.4- | 46.5 | 812 | 390- | 1110 | 0.0 |
| R. BASS | 12 | 0.14 | 0.10- | 0.24 | 17.4 | 13.5- | 21.3 | 111 | 47- | 200 | 0.0 |
| Y. PERCH | 15 | 0.17 | 0.10- | 0.27 | 25.6 | 20.1- | 32.5 | 191 | 84- | 390 | 0.0 |
| S.M. BASS | 24 | 0.48 | 0.17- | 1.44 | 32.1 | 22.6- | 41.4 | 504 | 145- | 1100 | 29.2 |
| L. TROUT | * 20 | 0.39 | 0.16- | 0.58 | 72.5 | 54.1- | 82.8 | 3862 | 1503- | 5000 | 30.0 |
| WHITEFISH | 11 | 0.06 | 0.04- | 0.08 | 44.3 | 35.6- | 49.0 | 743 | 292- | 1070 | 0.0 |
| WALLEYE | * 22 | 0.27 | 0.07- | 0.96 | 51.9 | 30.7- | 75.2 | 1789 | 252- | 4575 | 13.6 |
| SMELT | * 10 | 0.08 | 0.05- | 0.11 | 20.9 | 16.8- | 24.9 | 48 | 26- | 73 | 0.0 |
| CISCO | 9 | 0.06 | 0.05- | 0.08 | 23.2 | 22.5- | 24.2 | 101 | 82- | 118 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| BURBOT | - | - | - | A | A | A | A | A | A | A |
| W. SUCKER | - | - | - | - | A | A | A | - | - | - |
| L. TROUT | - | - | - | - | - | - | A | A | A | B |
| WALLEYE | - | - | - | A | A | A | A | A | B | B |
| SMELT | A | A | A | A | A | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| BURBOT | 0.001807 | 1.26100 | 0.812 | 0 | | 0.00 |
| W. SUCKER | 0.000001 | 3.10888 | 0.638 | 0 | | 0.00 |
| L. TROUT | 0.000021 | 2.27994 | 0.678 | 60 | | 0.24 |
| WALLEYE | 0.000076 | 2.03810 | 0.878 | 50 | | 0.22 |
| SMELT | 0.000765 | 1.53301 | 0.777 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SIX MILE LAKE, 1971
TOWNSHIP: BAXTER COUNTY : MUSKOKA LAT/LONG: 4454/7943
DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|-----|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B.BULLHEAD | 1 | 0.35 | - | - | 29.0 | - | - | 425 | - | - | - |
| S.M. BASS | 2 | 0.39 | 0.30- | 0.48 | 31.3 | 30.0- | 32.5 | 443 | 403- | 483 | 0.0 |
| L.M. BASS | 2 | 0.46 | 0.35- | 0.57 | 35.0 | 33.0- | 37.0 | 643 | 431- | 854 | 50.0 |
| P SEED | 4 | 0.32 | 0.17- | 0.58 | 19.4 | 18.5- | 20.4 | 145 | 130- | 183 | 25.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SKELETON LAKE, 1977
TOWNSHIP: CARDWELL COUNTY : MUSKOKA LAT/LONG: 4515/7927
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | * 30 | 0.37 | 0.15- | 0.89 | 53.8 | 35.0- | 75.0 | 171.3 | 400- | 4700 | 23.3 |
| WALLEYE | * 28 | 0.40 | 0.11- | 1.40 | 48.0 | 33.5- | 70.0 | 1400 | 500- | 3750 | 10.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | A | A | A | B | B | C |
| WALLEYE | - | - | - | A | A | A | B | B | C | D |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000034 | 2.30724 | 0.844 | 60 | | 0.44 |
| WALLEYE | 0.000005 | 2.87788 | 0.923 | 50 | | 0.40 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SKELETON LAKE, 1971
 TOWNSHIP: CARDWELL COUNTY : MUSKOKA LAT/LONG: 4515/7927
 DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 5 | 0.33 | 0.22- | 0.61 | 50.8 | 29.5- | 81.0 | 1556 | 239- | 5005 | 20.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SPARROW LAKE, 1977

TOWNSHIP: ORILLIA

COUNTY : MUSKOKA

LAT/LONG: 4447/7924

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 15 | 0.59 | 0.28- | 0.86 | 35.6 | 29.7- | 43.3 | 610 | 250- | 1250 | 73.3 |
| WALLEYE * | 15 | 0.77 | 0.27- | 1.20 | 48.2 | 36.8- | 59.6 | 957 | 250- | 2000 | 86.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | - | A | B | B | C | - | - | - |
| WALLEYE | - | - | - | - | A | B | B | C | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.002353 | 1.53605 | 0.602 | 0 | | 0.00 |
| WALLEYE | 0.000407 | 1.93693 | 0.727 | 50 | | 0.79 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SPARROW LAKE, 1971

TOWNSHIP: ORILLIA COUNTY : MUSKOKA

LAT/LONG: 4447/7924

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| C. CATFISH | 6 | 0.23 | 0.10- | 0.49 | 44.5 | 31.0- | 55.0 | 967 | 423- | 1417 | 0.0 |
| B. BULLHEAD | 9 | 0.12 | 0.06- | 0.17 | 29.4 | 27.0- | 33.0 | 421 | 353- | 488 | 0.0 |
| R. BASS | 3 | 0.22 | 0.20- | 0.25 | 20.8 | 19.5- | 21.8 | 285 | 157- | 444 | 0.0 |
| L.M. BASS | 1 | 0.23 | - | - | 30.4 | - | - | 422 | - | - | - |
| S.M. BASS | 2 | 0.36 | 0.31- | 0.40 | 33.3 | 33.0- | 33.5 | 539 | 527- | 550 | 0.0 |
| WALLEYE | 2 | 0.38 | 0.35- | 0.41 | 43.5 | 39.5- | 47.5 | 832 | 706- | 957 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: STONY LAKE, 1977

TOWNSHIP: DUMMER

COUNTY : PETERBOROUGH

LAT/LONG: 44 33/78 06

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 8 | 0.39 | 0.12- | 0.68 | 36.3 | 23.0- | 43.6 | 538 | 140- | 907 | 25.0 |
| BURBOT | * 19 | 0.32 | 0.04- | 0.47 | 43.4 | 27.0- | 60.6 | 798 | 168- | 2214 | 0.0 |
| MUSKIE | * 21 | 0.28 | 0.07- | 0.91 | 71.4 | 44.5- | 91.1 | 2256 | 450- | 4767 | 19.0 |
| CISCO | * 12 | 0.21 | 0.08- | 0.37 | 38.9 | 28.6- | 47.0 | 675 | 198- | 1105 | 0.0 |
| Y. PERCH | 1 | 0.24 | - | - | 20.5 | - | - | 85 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | C | - | - | - |
| BURBOT | - | - | A | A | A | A | B | B | C | - |
| MUSKIE | - | - | - | - | - | A | A | A | A | A |
| CISCO | - | - | - | A | A | A | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000032 | 2.59253 | 0.894 | 50 | | 0.82 |
| BURBOT | 0.000030 | 2.43409 | 0.767 | 0 | | 0.00 |
| MUSKIE | 0.000002 | 2.78762 | 0.811 | 0 | | 0.00 |
| CISCO | 0.000006 | 2.81530 | 0.881 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: STURGEON LAKE, 1977
TOWNSHIP: FENELON COUNTY : VICTORIA LAT/LONG: 4428/7843
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 20 | 0.21 | 0.06- | 0.48 | 32.8 | 18.1- | 47.1 | 655 | 85- | 1701 | 0.0 |
| WALLEYE * | 20 | 0.19 | 0.07- | 1.10 | 39.3 | 23.8- | 62.1 | 661 | 113- | 2183 | 5.0 |
| Y. PERCH | 20 | 0.05 | 0.03- | 0.08 | 18.2 | 11.8- | 25.1 | 92 | 28- | 227 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | A | A | B | - | - | - |
| WALLEYE | - | - | A | A | A | A | A | A | A | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000341 | 1.81625 | 0.902 | 0 | | 0.00 |
| WALLEYE | 0.000369 | 1.63887 | 0.693 | 50 | | 0.22 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SUNRISE LAKE, 1971
TOWNSHIP: LIVINGSTONE COUNTY : HALIBURTON LAT/LONG: 4526/7845
DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|-----|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B. TROUT | 5 | 0.20 | 0.15 | 0.27 | 29.2 | 22.5 | 34.0 | 339 | 133 | 469 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TADENAC LAKE, 1977

TOWNSHIP: FREEMAN

COUNTY : MUSKOKA

LAT/LONG: 450 3/7957

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| GAR PIKE | 1 | 1.80 | - | - | 79.0 | - | - | 1320 | - | - | - |
| CISCO | 3 | 0.11 | 0.04- | 0.15 | 31.0 | 28.0- | 35.0 | 294 | 180- | 502 | 0.0 |
| L. TROUT * | 10 | 0.27 | 0.07- | 1.50 | 32.2 | 23.5- | 93.0 | 1061 | 105- | 9400 | 10.0 |
| SMELT | 3 | 0.30 | 0.30- | 0.31 | 16.2 | 15.8- | 16.6 | 23 | 22- | 24 | 0.0 |
| PIKE | 2 | 0.83 | 0.66- | 1.00 | 64.0 | 64.0- | 64.0 | 2025 | 2001- | 2049 | 100.0 |
| S.M. BASS * | 23 | 0.33 | 0.13- | 0.66 | 25.9 | 18.0- | 32.0 | 231 | 74- | 475 | 8.7 |
| L.M. BASS | 5 | 0.23 | 0.13- | 0.36 | 26.4 | 21.0- | 34.0 | 250 | 107- | 540 | 0.0 |
| Y. PERCH | 5 | 0.35 | 0.27- | 0.43 | 20.8 | 19.0- | 24.0 | 92 | 68- | 130 | 0.0 |
| B. BULLHEAD | 2 | 0.11 | 0.10- | 0.11 | 21.5 | 21.0- | 22.0 | 105 | 100- | 110 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | A | A | A | A | B | B | C | C |
| S.M. BASS | - | A | A | A | B | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000183 | 1.99693 | 0.877 | 60 | | 0.65 |
| S.M. BASS | 0.000424 | 2.03608 | 0.830 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: THREE MILE LAKE, 1977

TOWNSHIP: WATT COUNTY : MUSKOKA

LAT/LONG: 4510/7927

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 20 | 0.67 | 0.29- 1.40 | 39.7 | 30.4- 63.5 | 576 | 175- 2250 | 55.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | B | C | D | D | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000827 | 1.79208 | 0.698 | 50 | | 0.92 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: THOMPSON LAKE, 1977
 TOWNSHIP: KING COUNTY : YORK LAT/LONG: 4355/7929
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | % >= .5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|----------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| RAINBOW | 28 | 0.08 | 0.04- | 0.13 | 25.7 | 20.5- | 33.0 | 208 | 100- | 460 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: VERNON LAKE, 1977

TOWNSHIP: STISTED COUNTY : MUSKOKA

LAT/LONG: 4520/7917

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|-------------|----|---------------|-------|-------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| SMELT | 5 | 0.45 | 0.38- | 0.51 | 14.5 | 14.5- | 14.5 | 19 | 19- | 19 | 20.0 |
| S.M. BASS * | 20 | 0.92 | 0.25- | 3.60 | 25.9 | 22.0- | 44.5 | 271 | 110- | 1375 | 75.0 |
| L. TROUT * | 30 | 4.49 | 0.49- | 10.00 | 61.5 | 23.0- | 93.0 | 3611 | 200- | 9600 | 96.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | B | C | D | D | D | - | - | - |
| L. TROUT | - | - | B | E | C | D | D | D | D | D |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000070 | 2.86578 | 0.818 | 0 | | 0.00 |
| L. TROUT | 0.000503 | 2.15863 | 0.932 | 60 | | 3.47 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WOODS LAKE, 1977

TOWNSHIP: CARDWELL DISTRICT: MUSKOKA

LAT/LONG: 4516/7936

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 10 | 0.16 | 0.08- | 0.29 | 20.0 | 14.0- | 25.0 | 118 | 40- | 200 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | A | A | A | A | A | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.002800 | 1.33928 | 0.672 | 0 | | 0.00 |

MERCURY DATA SUMMARIES

SOUTHEASTERN REGION



MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BARK LAKE, 1976

TOWNSHIP: JONES

COUNTY : RENFREW

LAT/LONG: 4527/7751

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (G.) | | % >= .5 PPM |
|----------|------|---------------|------------|--------------|------------|-------------|------------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 10 | 1.37 | 0.82- 2.10 | 58.0 | 50.4- 67.0 | 2042 | 1136- 2726 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | B | C | D | E | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000016 | 2.79134 | 0.823 | 60 | | 1.45 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BIG CLEAR LAKE, 1977

TOWNSHIP: BEDFORD

COUNTY : FRONTENAC

LAT/LONG: 44 33/7628

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | % > .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 10 | 0.26 | 0.18- | 0.45 | 28.5 | 25.5- | 38.6 | 385 | 250- | 1000 | 0.0 |
| L. TROUT * | 11 | 0.30 | 0.15- | 0.62 | 45.5 | 33.5- | 76.4 | 1111 | 300- | 4400 | 18.2 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | A | A | A | B | - | - | - | - |
| L. TROUT | - | - | - | A | A | A | A | A | B | E |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000385 | 1.93971 | 0.848 | 0 | | 0.00 |
| L. TROUT | 0.001276 | 1.41670 | 0.827 | 60 | | 0.42 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BIG RIDEAU LAKE, 1977
TOWNSHIP: SOUTH BURGESS COUNTY : LEEDS LAT/LONG: 4446/7613
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT * | 18 | 0.26 | 0.19- | 0.37 | 47.4 | 42.3- | 58.6 | 971 | 120- | 1950 | 0.0 |
| L.M. BASS * | 7 | 0.26 | 0.14- | 0.60 | 29.3 | 19.2- | 40.5 | 479 | 200- | 1050 | 14.3 |
| S.M. BASS | 3 | 0.23 | 0.20- | 0.26 | 24.2 | 19.2- | 27.2 | 267 | 200- | 300 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | A | A | - | - |
| L.M. BASS | - | A | A | A | A | B | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STL LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000412 | 1.66497 | 0.801 | 60 | | 0.38 |
| L.M. BASS | 0.000541 | 1.81342 | 0.931 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BIG RIDEAU LAKE, 1970
TOWNSHIP: N&S ELMSLEY COUNTY : LANARK+ LEEDS LAT/LONG: 4446/7613
DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 1 | 0.53 | - | - | 57.5 | - | - | 1591 | - | - | - |
| PIKE | 5 | 0.54 | 0.34- | 0.75 | 62.1 | 55.2- | 71.0 | 1632 | 1055- | 2613 | 60.0 |
| B. BULLHEAD | 5 | 0.17 | 0.10- | 0.24 | 27.0 | 24.8- | 33.0 | 248 | 193- | 366 | 0.0 |
| BURBOT * | 5 | 0.34 | 0.22- | 0.48 | 63.7 | 60.3- | 68.3 | 1773 | 1599- | 1884 | 0.0 |
| WALLEYE | 1 | 0.21 | - | - | 42.0 | - | - | 1185 | - | - | - |
| L.M. BASS | 5 | 0.41 | 0.30- | 0.58 | 30.4 | 27.0- | 35.0 | 581 | 420- | 840 | 20.0 |
| WHITFISH * | 5 | 0.14 | 0.05- | 0.28 | 48.2 | 42.2- | 54.5 | 1136 | 825- | 1720 | 0.0 |
| Y. PERCH | 5 | 0.36 | 0.15- | 0.47 | 25.4 | 24.0- | 28.2 | 192 | 149- | 251 | 0.0 |
| R. BASS | 5 | 0.34 | 0.20- | 0.48 | 19.4 | 18.2- | 21.1 | 140 | 102- | 177 | 0.0 |
| B. CRAPPIE | 4 | 0.23 | 0.21- | 0.28 | 21.7 | 20.0- | 23.1 | 136 | 101- | 158 | 0.0 |
| BLUEGILL | 4 | 0.12 | 0.10- | 0.14 | 20.1 | 19.2- | 21.5 | 155 | 133- | 191 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| BURBOT | - | - | - | - | - | - | A | A | B | - |
| WHITEFISH | - | - | - | - | - | A | A | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| BURBOT | 0.000000 | 5.16695 | 0.875 | 0 | | 0.00 |
| WHITEFISH | 0.000000 | 6.02278 | 0.940 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BIG SALMON LAKE, 1977
TOWNSHIP: BEDFORD COUNTY : FRONTENAC LAT/LONG: 44 32/76 30
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | % > .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L.M. BASS * | 12 | 0.26 | 0.12- 0.41 | 30.2 | 23.6- 36.3 | 500 | 250- 800 | 0.0 |
| L. TROUT | 16 | 0.31 | 0.16- 0.66 | 45.6 | 31.7- 66.3 | 1073 | 450- 3200 | 6.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L.M. BASS | - | - | A | A | A | A | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L.M. BASS | 0.000797 | 1.68507 | 0.612 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BLACK LAKE, 1977

TOWNSHIP: NORTH BURGESS COUNTY : LANARK

LAT/LONG: 4446/7618

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 13 | 0.30 | 0.22- | 0.42 | 41.3 | 34.8- | 50.3 | 388 | 235- | 640 | 0.0 |
| S.M. BASS * | 15 | 0.51 | 0.25- | 1.20 | 29.2 | 22.9- | 43.2 | 393 | 180- | 1250 | 33.3 |
| L.M. BASS | 4 | 0.63 | 0.52- | 0.85 | 30.7 | 27.9- | 37.6 | 445 | 310- | 600 | 100.0 |
| WALLEYE | 2 | 0.25 | 0.22- | 0.27 | 35.3 | 30.5- | 40.1 | 540 | 300- | 780 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | A | B | B | C | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000819 | 1.89131 | 0.827 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BUCK LAKE, 1977
TOWNSHIP: BEDFORD COUNTY : FRONTENAC LAT/LONG: 44 32/7626
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT * | 25 | 0.30 | 0.13 | 0.64 | 45.6 | 29.2 | 65.7 | 1022 | 250 | 3300 | 8.0 |
| L.M. BASS | 12 | 0.23 | 0.13 | 0.53 | 25.5 | 20.0 | 30.4 | 288 | 200 | 450 | 8.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | A | A | A | A | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.014079 | 0.79068 | 0.450 | 60 | | 0.36 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CALABOGIE LAKE, 1977

TOWNSHIP: BLITHFIELD

COUNTY : RENFREW

LAT/LONG: 4516/7645

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | >= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE * | 20 | 0.64 | 0.18- | 1.20 | 40.1 | 21.8- | 57.2 | 763 | 196- | 1740 | 60.0 |
| PIKE * | 7 | 0.49 | 0.28- | 0.78 | 49.4 | 42.5- | 58.7 | 746 | 426- | 1107 | 42.9 |
| S.M. BASS * | 27 | 0.53 | 0.25- | 1.10 | 29.8 | 22.0- | 40.8 | 500 | 154- | 1300 | 44.4 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | A | A | A | A | B | C | C | - | - |
| PIKE | - | - | - | - | - | A | B | C | - | - |
| S.M. BASS | - | A | A | B | B | B | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.001765 | 1.57756 | 0.816 | 50 | | 0.85 |
| PIKE | 0.000010 | 2.75926 | 0.948 | 60 | | 0.80 |
| S.M. BASS | 0.002504 | 1.55906 | 0.687 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CONSTAN LAKE, 1976

TOWNSHIP: GRATTAN

COUNTY : RENFREW

LAT/LONG: 4524/7659

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 5 | 0.55 | 0.36- | 0.63 | 45.6 | 42.9- | 48.8 | 844 | 681- | 1044 | 80.0 |
| PIKE | 3 | 0.33 | 0.25- | 0.39 | 50.9 | 47.8- | 54.4 | 1128 | 1090- | 1188 | 0.0 |
| P. SEED | 1 | 0.22 | - | - | 18.1 | - | - | 85 | - | - | - |
| Y. PERCH | 1 | 0.50 | - | - | 12.9 | - | - | 48 | - | - | - |
| R. BASS | 1 | 1.10 | - | - | 17.4 | - | - | 124 | - | - | - |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CONSTANCE LAKE, 1976
TOWNSHIP: MARCH COUNTY : CARLETON LAT/LONG: 4524/7559
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | %>= .5 PPM |
|---------|-----|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 8 | 0.27 | 0.13- 0.37 | 43.1 | 36.0- 56.0 | 629 | 400- 1175 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000267 | 1.83357 | 0.745 | 60 | | 0.49 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABOFATORY SERVICES BRANCH

LOCATION: CROWE LAKE, 1977
 TOWNSHIP: BELMONT COUNTY: HASTINGS LAT/LONG: 4430/7744
 DATA SOURCE: NOE

| SPECIES | N | MEPCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 3 | 0.75 | 0.61- | 0.93 | 50.0 | 46.0- | 54.0 | 1273 | 1100- | 1620 | 100.0 |
| S.M. BASS | 11 | 0.37 | 0.17- | 0.48 | 28.5 | 23.0- | 38.0 | 423 | 180- | 1000 | 0.0 |
| MUSKIE | 4 | 0.43 | 0.12- | 0.99 | 58.3 | 29.0- | 90.0 | 1755 | 170- | 4500 | 25.0 |
| L.M. BASS | 5 | 0.46 | 0.23- | 0.74 | 33.2 | 28.0- | 39.0 | 706 | 400- | 1200 | 40.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CROWE LAKE, 1976

TOWNSHIP: BELMONT

COUNTY : HASTINGS

LAT/LONG: 4429/7744

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 4 | 0.75 | 0.38- | 0.97 | 47.1 | 31.0- | 57.2 | 1070 | 255- | 1701 | 75.0 |
| S.M. BASS | 4 | 0.76 | 0.57- | 1.10 | 32.9 | 26.2- | 45.7 | 574 | 255- | 1247 | 100.0 |
| L.M. BASS | 1 | 0.29 | - | - | 25.2 | - | - | 284 | - | - | - |
| MUSKIE | 2 | 0.35 | 0.22- | 0.48 | 56.4 | 48.7- | 64.0 | 1007 | 624- | 1389 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: DEVIL LAKE, 1977
TOWNSHIP: BEDFORD COUNTY : FRONTENAC LAT/LONG: 44 35/7627
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT * | 15 | 0.26 | 0.14- | 0.53 | 45.4 | 27.2- | 67.3 | 1020 | 200- | 3450 | 6.7 |
| S.M. BASS * | 8 | 0.34 | 0.16- | 0.56 | 32.3 | 19.9- | 46.8 | 597 | 160- | 1300 | 25.0 |
| L.M. BASS | 2 | 0.26 | 0.22- | 0.30 | 32.9 | 28.7- | 37.0 | 528 | 300- | 755 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | A | A | A | A | A | A | A | - |
| S.M. BASS | - | A | A | A | A | B | B | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.002780 | 1.17754 | 0.683 | 60 | | 0.35 |
| S.M. BASS | 0.001301 | 1.58833 | 0.967 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: DICKEY LAKE, 1977

TOWNSHIP: LAKE COUNTY : HASTINGS

LAT/LONG: 4447/7744

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > 0.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT * | 9 | 0.32 | 0.18- | 0.59 | 41.4 | 35.2- | 46.8 | 739 | 450- | 1100 | 22.2 |
| L.M. BASS | 1 | 0.29 | - | - | 26.1 | - | - | 250 | - | - | - |
| S.M. BASS * | 10 | 0.37 | 0.14- | 1.10 | 25.0 | 17.0- | 37.6 | 249 | 46- | 800 | 10.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | A | A | B | - | - | - |
| S.M. BASS | - | A | A | B | B | C | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000003 | 3.06176 | 0.709 | 60 | | 0.92 |
| S.M. BASS | 0.000201 | 2.29589 | 0.922 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: EAGLE LAKE, 1977
TOWNSHIP: OLDEN COUNTY : FRONTENAC LAT/LONG: 4441/7642
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT * | 6 | 0.32 | 0.14- | 0.90 | 42.7 | 31.8- | 80.3 | 1417 | 250- | 6500 | 16.7 |
| L.M. BASS * | 7 | 0.17 | 0.13- | 0.21 | 28.2 | 24.3- | 35.5 | 396 | 250- | 700 | 0.0 |
| S.M. BASS * | 9 | 0.22 | 0.12- | 0.64 | 28.5 | 22.8- | 43.3 | 444 | 250- | 1200 | 11.1 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | A | A | B | B | C |
| L.M. BASS | - | - | A | A | A | A | - | - | - | - |
| S.M. BASS | - | - | A | A | A | B | B | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000323 | 1.80508 | 0.977 | 60 | | 0.52 |
| L.M. BASS | 0.005447 | 1.02665 | 0.748 | 0 | | 0.00 |
| S.M. BASS | 0.000072 | 2.36886 | 0.933 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: FORTUNE LAKE, 1977

TOWNSHIP: MILLER

COUNTY : FRONTENAC

LAT/LONG: 4506/7701

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS | 3 | 0.21 | 0.19- | 0.23 | 26.6 | 25.5- | 28.5 | 317 | 300- | 350 | 0.0 |
| L.M. BASS * | 9 | 0.20 | 0.11- | 0.50 | 27.9 | 22.5- | 41.3 | 384 | 80- | 1250 | 11.1 |
| L. TROUT | 1 | 0.46 | - | - | 76.0 | - | - | 5100 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L.M. BASS | - | A | A | A | A | A | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|--------|-------|----------|----|---------|
| L.M. BASS | 0.000815 | 1.6823 | 0.774 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GREEN LAKE, 1970

TOWNSHIP: LAVANT COUNTY : LANARK

LAT/LONG: 45 09/76 36

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > 0.5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 22 | 0.27 | 0.12- 0.82 | 22.3 | 7.0- 34.0 | 227 | 15- 539 | 9.1 |
| PIKE * | 14 | 0.42 | 0.12- 0.87 | 42.4 | 14.0- 71.1 | 711 | 11- 2870 | 35.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | A | A | A | A | A | A | A | B | B | B |
| PIKE | A | A | A | A | A | A | B | B | B | B |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.020528 | 0.80445 | 0.772 | 0 | | 0.00 |
| PIKE | 0.003153 | 1.29099 | 0.908 | 60 | | 0.62 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KAMANISKEG LAKE, 1977
 TOWNSHIP: BANGOR COUNTY : RENFREW LAT/LONG: 4525/7741
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | * 10 | 1.68 | 0.50- | 5.30 | 65.5 | 47.5- | 89.2 | 3106 | 936- | 7118 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | B | C | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000001 | 3.29653 | 0.939 | 60 | | 0.97 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KENNEBEC LAKE, 1977
TOWNSHIP: KENNEBEC COUNTY : FRONTENAC LAT/LONG: 4444/7658
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L.M. BASS | 4 | 0.53 | 0.30- | 0.65 | 29.0 | 22.0- | 33.0 | 450 | 200- | 550 | 75.0 |
| S.M. BASS * | 5 | 0.64 | 0.41- | 0.86 | 29.7 | 25.5- | 35.9 | 395 | 215- | 700 | 60.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | A | B | B | D | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000359 | 2.20039 | 0.931 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KERR LAKE, 1976

TOWNSHIP: LANARK

COUNTY : LANARK

LAT/LONG: 4502/7623

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>= .5 PPM |
|-------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 2 | 0.22 | 0.14- | 0.29 | 46.0 | 45.0- | 47.0 | 480 | 470- | 490 | 0.0 |
| B. BULLHEAD | 7 | 0.12 | 0.08- | 0.19 | 26.4 | 25.0- | 28.0 | 256 | 200- | 330 | 0.0 |
| S.M. BASS | 4 | 0.38 | 0.13- | 0.67 | 31.3 | 20.0- | 45.0 | 548 | 90- | 1210 | 25.0 |
| W. SUCKER | 4 | 0.18 | 0.04- | 0.46 | 38.3 | 30.0- | 50.0 | 703 | 380- | 1050 | 0.0 |
| Y. PERCH * | 5 | 0.30 | 0.23- | 0.42 | 22.4 | 19.0- | 28.0 | 172 | 110- | 290 | 0.0 |
| WALLEYE | 2 | 0.62 | 0.61- | 0.62 | 59.0 | 58.0- | 60.0 | 1998 | 1975- | 2020 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | - | A | A | A | B | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.003799 | 1.40048 | 0.858 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LINGHAM LAKE, 1977
TOWNSHIP: GRIMSTHORPE COUNTY : HASTINGS LAT/LONG: 4446/7725
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L.M. BASS | 3 | 0.70 | 0.66- | 0.76 | 29.4 | 27.4- | 30.7 | 282 | 225- | 310 | 100.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LOWER RIDEAU LAKE, 1970
TOWNSHIP: N&S ELMSLEY COUNTY : LANARK + LEEDS LAT/LONG: 4451/7607
DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 5 | 1.00 | 0.64- | 1.55 | 65.0 | 60.2- | 68.0 | 4010 | 3601- | 4494 | 100.0 |
| L. TROUT * | 7 | 0.53 | 0.29- | 0.86 | 58.2 | 41.6- | 71.2 | 2017 | 566- | 3875 | 57.1 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | A | B | B | C |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000364 | 1.78281 | 0.900 | 60 | | 0.54 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MACKIE LAKE, 1977
TOWNSHIP: MILLER COUNTY : FRONTENAC LAT/LONG: 4505/7659
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 2 | 0.41 | 0.31- | 0.51 | 45.5 | 45.2- | 45.8 | 713 | 680- | 745 | 50.0 |
| S.M. BASS * | 14 | 0.32 | 0.18- | 0.94 | 28.3 | 20.5- | 46.3 | 391 | 120- | 1460 | 14.3 |
| L.M. BASS | 7 | 0.20 | 0.11- | 0.39 | 23.5 | 14.3- | 33.2 | 218 | 40- | 585 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | A | B | C | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000348 | 2.00372 | 0.938 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MAZINAW LAKE, 1977

TOWNSHIP: ABINGER

COUNTY : LENNOX

LAT/LONG: 4450/7712

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | >= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|------------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | 21 | 1.28 | 0.76- 2.20 | 55.1 | 45.2- 73.2 | 1712 | 1000- 4100 | 100.0 |
| S.M. BASS * | 12 | 0.78 | 0.37- 1.20 | 38.3 | 28.3- 43.6 | 972 | 450- 1500 | 83.3 |
| WALLEYE * | 21 | 1.28 | 0.44- 2.50 | 47.3 | 32.7- 58.0 | 1043 | 300- 1710 | 95.2 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | - | A | B | C | D | - | - | - |
| WALLEYE | - | - | - | A | A | C | D | D | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|------|---------|
| S.M. BASS | 0.000224 | 2.22312 | 0.726 | 0 | 0.00 | |
| WALLEYE | 0.000003 | 3.30839 | 0.882 | 50 | 1.41 | |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MISSISSIPPI LAKE, 1977

TOWNSHIP: DRUMMOND COUNTY : LANARK

LAT/LONG: 4505/7610

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | ≥ 0.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 19 | 0.66 | 0.26- | 1.50 | 42.3 | 22.9- | 62.0 | 790 | 125- | 1950 | 52.6 |
| L.M. BASS | * 19 | 0.45 | 0.22- | 1.20 | 31.0 | 21.6- | 42.7 | 488 | 125- | 1035 | 31.6 |
| S.M. BASS | * 11 | 0.47 | 0.28- | 1.00 | 30.2 | 22.1- | 44.4 | 463 | 150- | 1270 | 18.2 |
| PIKE | * 20 | 0.56 | 0.13- | 0.93 | 50.5 | 33.0- | 65.3 | 735 | 220- | 1630 | 55.0 |
| Y. PERCH | * 5 | 0.33 | 0.19- | 0.46 | 23.9 | 20.8- | 26.9 | 195 | 90- | 285 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | B | C | C | - |
| L.M. BASS | - | A | A | A | B | B | C | - | - | - |
| S.M. BASS | - | A | A | A | B | B | C | - | - | - |
| PIKE | - | - | - | A | A | A | B | B | C | - |
| Y. PERCH | - | A | A | B | C | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.007997 | 1.15757 | 0.663 | 50 | | 0.74 |
| L.M. BASS | 0.001017 | 1.75516 | 0.758 | 0 | | 0.00 |
| S.M. BASS | 0.002035 | 1.58473 | 0.875 | 0 | | 0.00 |
| PIKE | 0.000442 | 1.79953 | 0.633 | 60 | | 0.70 |
| Y. PERCH | 0.000003 | 3.60195 | 0.972 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MISSISSIPPI RIVER, 1976

TOWNSHIP: -

COUNTY : CARLETON

LAT/LONG: 4526/7616

DATA SOURCE: MCE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|--------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS | 22 | 0.64 | 0.27- | 1.00 | 30.2 | 17.0- | 40.0 | 394 | 100- | 940 | 72.7 |
| PIKE | 3 | 0.39 | 0.35- | 0.46 | 43.2 | 37.5- | 47.0 | 505 | 265- | 720 | 0.0 |
| EEL | 10 | 0.24 | 0.11- | 0.42 | 73.7 | 50.0- | 90.0 | 949 | 230- | 1600 | 0.0 |
| WALLEYE * | 32 | 0.80 | 0.25- | 3.10 | 42.0 | 23.0- | 78.0 | 875 | 90- | 3795 | 65.6 |
| L.M. BASS | 1 | 0.35 | - | - | 33.0 | - | - | 560 | - | - | - |
| R.H. SUCKER* | 11 | 0.53 | 0.17- | 1.20 | 42.0 | 32.0- | 65.0 | 936 | 400- | 2820 | 54.5 |
| B. BULLHEAD | 11 | 0.18 | 0.10- | 0.38 | 28.5 | 18.0- | 32.0 | 334 | 140- | 470 | 0.0 |
| W. SUCKER | 10 | 0.33 | 0.20- | 0.52 | 42.5 | 30.0- | 47.5 | 1040 | 850- | 1400 | 10.0 |
| Y. PERCH | 3 | 0.30 | 0.24- | 0.35 | 21.0 | 20.0- | 23.0 | 103 | 90- | 120 | 0.0 |
| MOONEYE | 1 | 0.36 | - | - | 37.0 | - | - | 535 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | B | B | C | C | D | D |
| R.H. SUCKER | - | - | - | A | A | B | E | C | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-------------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.003935 | 1.39667 | 0.757 | 50 | | 0.93 |
| R.H. SUCKER | 0.000200 | 2.09080 | 0.771 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MOIRA LAKE, 1977
TOWNSHIP: HUNTINGDON COUNTY: HASTINGS LAT/LONG: 4430/7727
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 7 | 0.96 | 0.61- | 1.50 | 55.7 | 42.0- | 80.0 | 1339 | 450- | 2500 | 100.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MOIRA LAKE, 1976
 TOWNSHIP: HUNTINGDON COUNTY : HASTINGS LAT/LONG: 44 30/7727
 DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 7 | 0.72 | 0.58- | 0.99 | 51.6 | 44.0- | 60.0 | 769 | 454- | 1247 | 100.0 |
| WALLEYE * | 40 | 1.18 | 0.68- | 1.80 | 35.6 | 28.3- | 45.0 | 401 | 199- | 766 | 100.0 |
| S.M. BASS | 25 | 0.95 | 0.74- | 1.40 | 25.9 | 22.5- | 31.0 | 230 | 113- | 369 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | B | C | D | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.010357 | 1.32214 | 0.610 | 50 | | 1.83 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MUSKRAT LAKE, 1977
TOWNSHIP: WESTMEATH COUNTY : RENFREW LAT/LONG: 4540/7655
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | ≥0.5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | * 10 | 0.59 | 0.26- | 1.20 | 59.3 | 40.2- | 76.3 | 2579 | 580- | 4767 | 30.0 |
| SMELT | * 22 | 0.39 | 0.22- | 0.84 | 23.0 | 20.0- | 26.5 | 84 | 56- | 112 | 18.2 |
| PIKE | * 6 | 0.61 | 0.29- | 1.10 | 43.1 | 35.7- | 56.3 | 486 | 252- | 978 | 33.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | A | B | B | C |
| SMELT | - | A | B | B | C | - | - | - | - | - |
| PIKE | - | - | - | - | A | B | C | D | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000048 | 2.28104 | 0.920 | 60 | | 0.54 |
| SMELT | 0.000042 | 2.90732 | 0.793 | 0 | | 0.00 |
| PIKE | 0.000016 | 2.77778 | 0.945 | 60 | | 1.39 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OTTAWA RIVER, 1977
 TOWNSHIP: OTTAWA COUNTY : CARLETON LAT/LONG: 4522/7549
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|----|---------------|------------|--------------|------------|--------------|----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| SAUGER | 37 | 0.63 | 0.23- 1.90 | 26.9 | 23.0- 33.0 | 250 | 150- 400 | 70.3 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OTTAWA RIVER, 1976
TOWNSHIP: - COUNTY : CARLETON LAT/LONG: 4530/7610
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 38 | 0.68 | 0.19- | 1.60 | 34.5 | 26.0- | 50.0 | 484 | 250- | 1000 | 71.1 |
| S.M. BASS | 3 | 0.45 | 0.40- | 0.52 | 28.3 | 24.0- | 32.0 | 420 | 300- | 542 | 33.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | E | B | B | C | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.006990 | 1.27275 | 0.494 | 50 | | 1.02 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OTTAWA RIVER, 1977

TOWNSHIP: PETAWAWA

COUNTY : RENFREW

LAT/LONG: 4559/7720

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 25 | 0.91 | 0.22- 1.90 | 67.0 | 43.9- 99.0 | 2340 | 454- 7264 | 80.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | B | C | C |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000286 | 1.89354 | 0.811 | 60 | | 0.68 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OTTY LAKE, 1977

TOWNSHIP: NORTH BURGESS COUNTY : LANARK

LAT/LONG: 4451/7613

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.67 | 0.34- | 1.20 | 57.3 | 45.7- | 81.3 | 1302 | 600- | 3885 | 73.3 |
| S.M. BASS | * 12 | 0.70 | 0.24- | 1.70 | 33.9 | 25.9- | 57.2 | 589 | 220- | 1620 | 50.0 |
| L.M. BASS | 1 | 0.58 | - | - | 36.8 | - | - | 790 | - | - | - |
| WALLEYE | 2 | 0.93 | 0.56- | 1.30 | 57.7 | 51.3- | 64.0 | 1498 | 1085- | 1910 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | B | C | D |
| S.M. BASS | - | - | A | A | B | C | D | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000109 | 2.14738 | 0.865 | 60 | | 0.71 |
| S.M. BASS | 0.000165 | 2.33785 | 0.917 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RIDEAU RIVER, 1976

TOWNSHIP: - COUNTY : CARLETON

LAT/LONG: 4527/7542

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE * | 48 | 0.71 | 0.23- | 1.70 | 43.0 | 23.0- | 71.0 | 92.3 | 110- | 3000 | 56.3 |
| MUSKIE * | 7 | 0.37 | 0.18- | 0.48 | 59.3 | 34.0- | 80.0 | 1600 | 200- | 3300 | 0.0 |
| PIKE * | 13 | 0.38 | 0.17- | 0.70 | 46.5 | 33.0- | 63.0 | 681 | 220- | 1600 | 23.1 |
| B. CRAPPIE* | 12 | 0.33 | 0.19- | 0.54 | 25.8 | 22.0- | 28.0 | 300 | 21.5- | 390 | 16.7 |
| B. BULLHEAD | 21 | 0.10 | 0.06- | 0.18 | 25.7 | 21.0- | 30.0 | 26.3 | 100- | 425 | 0.0 |
| S.M. BASS * | 11 | 0.55 | 0.29- | 1.20 | 29.7 | 19.5- | 48.0 | 502 | 110- | 1525 | 45.5 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | B | C | C | D |
| MUSKIE | - | - | - | - | A | A | A | A | A | B |
| PIKE | - | - | - | A | A | A | B | B | B | - |
| B. CRAPPIE | - | A | A | B | B | - | - | - | - | - |
| S.M. BASS | - | A | A | B | B | B | C | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|------------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.002466 | 1.47866 | 0.731 | 50 | | 0.80 |
| MUSKIE | 0.005547 | 1.02331 | 0.827 | 0 | | 0.00 |
| PIKE | 0.000148 | 2.02530 | 0.808 | 60 | | 0.59 |
| B. CRAPPIE | 0.000005 | 3.39378 | 0.737 | 0 | | 0.00 |
| S.M. BASS | 0.009395 | 1.17954 | 0.751 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RIDEAU RIVER, 1971
TOWNSHIP: MONTAGUE+WOLF. COUNTY : LANARK+GRENV. LAT/LONG: 4500/7550
DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L.M. BASS | 5 | 0.55 | 0.36- | 0.79 | 34.0 | 24.8- | 43.7 | 828 | 567- | 1533 | 60.0 |
| PIKE | 8 | 0.26 | 0.17- | 0.38 | 43.2 | 38.9- | 49.8 | 556 | 340- | 794 | 0.0 |
| B. BULLHEAD | 3 | 0.10 | 0.09- | 0.12 | 20.9 | 19.8- | 22.1 | 142 | 113- | 172 | 0.0 |
| P. SEED | 3 | 0.16 | 0.13- | 0.20 | 14.1 | 12.7- | 16.5 | 77 | 59- | 113 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RIDEAU RIVER, 1971

TOWNSHIP: N&S CROSBY COUNTY : LEEDS

LAT/LONG: 4441/7620

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L.M. BASS | 6 | 0.39 | 0.25- | 0.52 | 34.5 | 22.6- | 46.2 | 804 | 64- | 1633 | 16.7 |
| WALLEYE | 6 | 0.58 | 0.45- | 0.90 | 57.3 | 52.8- | 59.4 | 1967 | 1429- | 2359 | 66.7 |
| S.M. BASS | 4 | 0.40 | 0.36- | 0.47 | 41.2 | 31.5- | 46.7 | 1372 | 499- | 1905 | 0.0 |
| PIKE | 4 | 0.35 | 0.22- | 0.45 | 54.4 | 38.9- | 61.0 | 1059 | 399- | 1542 | 0.0 |
| ALEWIFE | 1 | 0.40 | - | - | 20.3 | - | - | 86 | - | - | - |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ST. PETER, 1976
 TOWNSHIP: MCCLURE COUNTY : HASTINGS LAT/LONG: 4519/7802
 DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 17 | 0.70 | 0.12- 2.10 | 51.1 | 24.1- 83.8 | 1784 | 80- 5910 | 35.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | A | A | A | A | B | E | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000034 | 2.44733 | 0.957 | 60 | | 0.76 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SKOOTAMATTA LAKE, 1977

TOWNSHIP: ANGLESSA

COUNTY : LENNOX

LAT/LONG: 4450/7716

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | 1 | 1.15 | - | 69.5 | - | 4100 | - | - |
| WALLEYE | * 29 | 0.89 | 0.31- 1.47 | 50.0 | 26.6- 65.1 | 1499 | 325- 3000 | 79.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | C | C | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000524 | 1.88490 | 0.836 | 50 | | 0.83 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: STOCO LAKE, 1977

TOWNSHIP: HUNGERFORD COUNTY: HASTINGS

LAT/LONG: 4428/7717

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-----------|----|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L.M. BASS | 1 | 0.60 | - - | 40.0 | - - | 1000 | - - | - |
| S.M. BASS | 11 | 0.55 | 0.11- 0.97 | 33.6 | 25.0- 48.0 | 886 | 500- 2000 | 63.6 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: STOCO LAKE, 1976

TOWNSHIP: HUNGERFORD

COUNTY : HASTINGS

LAT/LONG: 4428/7717

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 16 | 0.70 | 0.48- | 1.10 | 41.4 | 30.2- | 63.0 | 952 | 142- | 2807 | 93.8 |
| PIKE | * 12 | 0.41 | 0.20- | 0.81 | 55.0 | 40.5- | 70.5 | 1285 | 680- | 2721 | 33.3 |
| S.M. BASS | 3 | 0.57 | 0.38- | 0.75 | 27.0 | 20.4- | 30.4 | 444 | 227- | 567 | 66.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | E | D | B | B | B | C | - |
| PIKE | - | - | - | - | - | A | A | B | E | B |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.043494 | 0.74521 | 0.731 | 50 | | 0.80 |
| PIKE | 0.000232 | 1.84654 | 0.614 | 60 | | 0.45 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TAY RIVER, 1976

TOWNSHIP: -

COUNTY : LANARK

LAT/LONG: 4453/7607

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L.M. BASS | 10 | 0.34 | 0.15- | 0.52 | 25.6 | 21.0- | 37.0 | 297 | 160- | 640 | 10.0 |
| B. CRAPPIE | 5 | 0.63 | 0.26- | 1.10 | 26.8 | 23.0- | 34.0 | 229 | 170- | 280 | 60.0 |
| B. BULLHEAD | 3 | 0.11 | 0.06- | 0.16 | 27.7 | 26.0- | 30.0 | 310 | 230- | 450 | 0.0 |
| R.H. SUCKER | 3 | 0.21 | 0.13- | 0.34 | 42.7 | 40.0- | 46.0 | 663 | 270- | 880 | 0.0 |
| PIKE | 4 | 0.61 | 0.33- | 0.97 | 42.8 | 36.0- | 48.0 | 495 | 460- | 580 | 75.0 |
| Y. PERCH | 2 | 0.65 | 0.64- | 0.65 | 24.5 | 24.0- | 25.0 | 240 | 230- | 250 | 100.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WESLEMKOON LAKE, 1977

TOWNSHIP: ASHBY

COUNTY : LENNOX

LAT/LONG: 4502/7725

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ 0.5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT * | 20 | 0.29 | 0.12- | 0.51 | 38.3 | 32.0- | 63.3 | 466 | 200- | 2150 | 5.0 |
| L.M. BASS | 1 | 0.33 | - | - | 33.5 | - | - | 500 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | A | A | B | B | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.001313 | 1.46570 | 0.555 | 60 | | 0.53 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WOLF LAKE, 1977
TOWNSHIP: TUDOR COUNTY : HASTINGS LAT/LONG: 4442/77 32
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L.M. BASS * | 12 | 0.41 | 0.23- 1.50 | 28.4 | 23.4- 45.1 | 448 | 250- 1500 | 16.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L.M. BASS | - | - | A | A | B | C | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|----------|-------|----------|----|---------|
| L.M. BASS | 0.000025 | 2.86 300 | 0.984 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WOLFE LAKE, 1977

TOWNSHIP: BEDFORD

COUNTY : FRONTENAC

LAT/LONG: 4441/76 30

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS | 12 | 0.27 | 0.12- | 0.54 | 31.7 | 25.0- | 40.8 | 590 | 300- | 1400 | 8.3 |
| WALLEYE | 14 | 0.33 | 0.17- | 0.53 | 39.3 | 30.6- | 53.7 | 704 | 400- | 1500 | 7.1 |

MERCURY DATA SUMMARIES

NORTHEASTERN REGION



MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ABITIBI, 1974
TOWNSHIP: - DISTRICT: COCHRANE LAT/LONG: 4842/7945
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.52 | 0.15- | 1.30 | 45.5 | 12.0- | 70.0 | 952 | 149- | 2490 | 33.3 |
| SAUGER | * 27 | 0.82 | 0.27- | 1.70 | 28.5 | 22.0- | 34.0 | 188 | 85- | 376 | 77.8 |
| WALLEYE | * 35 | 0.70 | 0.35- | 1.60 | 38.6 | 30.0- | 67.0 | 724 | 150- | 3711 | 71.4 |
| MOONEYE | 1 | 0.19 | - | - | 24.0 | - | - | 99 | - | - | - |
| CISCO | * 14 | 0.08 | 0.04- | 0.11 | 20.4 | 14.0- | 28.0 | 206 | 128- | 454 | 0.0 |
| GOLDEYE | * 16 | 0.26 | 0.11- | 0.53 | 22.8 | 17.0- | 31.0 | 163 | 71- | 397 | 12.5 |
| W. SUCKER | 6 | 0.29 | 0.17- | 0.42 | 37.2 | 25.0- | 44.0 | 861 | 234- | 1164 | 0.0 |
| Y. PERCH | 1 | 0.23 | - | - | 18.0 | - | - | 135 | - | - | - |
| F.W. DRUM | 1 | 0.03 | - | - | 16.0 | - | - | 99 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | A | A | A | A | A | A | B | B | B | B |
| SAUGER | - | A | B | B | D | D | - | - | - | - |
| WALLEYE | - | - | - | A | B | B | C | D | D | - |
| CISCO | A | A | A | A | A | - | - | - | - | - |
| GOLDEYE | - | A | A | B | B | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.006699 | 1.08707 | 0.641 | 60 | | 0.57 |
| SAUGER | 0.000011 | 3.30937 | 0.686 | 0 | | 0.00 |
| WALLEYE | 0.001362 | 1.68991 | 0.620 | 50 | | 1.01 |
| CISCO | 0.003557 | 1.00804 | 0.789 | 0 | | 0.00 |
| GOLDEYE | 0.000070 | 2.61121 | 0.903 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: AGNEW LAKE, 1975
TOWNSHIP: - DISTRICT: SUDBURY LAT/LONG: 4622/8145
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 26 | 0.66 | 0.30- | 1.80 | 36.3 | 24.0- | 54.0 | 576 | 200- | 1950 | 65.4 |
| PIKE | * 6 | 0.48 | 0.25- | 0.62 | 36.5 | 18.0- | 42.0 | 422 | 180- | 500 | 50.0 |
| Y. PERCH | 1 | 0.24 | - | - | 20.0 | - | - | 250 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | B | B | B | C | - | - |
| PIKE | - | A | A | A | A | B | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.009649 | 1.15211 | 0.520 | 50 | | 0.87 |
| PIKE | 0.018255 | 0.90659 | 0.920 | 60 | | 0.75 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: AHMIC LAKE, 1977
TOWNSHIP: CROFT COUNTY: PARRY SOUND LAT/LONG: 4538/7945
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 20 | 0.62 | 0.25- | 1.00 | 30.1 | 18.0- | 42.0 | 465 | 50- | 1100 | 80.0 |
| WALLEYE * | 31 | 0.91 | 0.46- | 4.30 | 41.0 | 31.0- | 74.5 | 787 | 300- | 3600 | 93.5 |
| WHITEFISH | 5 | 0.31 | 0.21- | 0.51 | 32.7 | 29.0- | 36.0 | 386 | 220- | 525 | 20.0 |
| Y. PERCH | 5 | 0.61 | 0.39- | 0.97 | 22.6 | 20.0- | 26.0 | 200 | 120- | 340 | 60.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | B | B | C | C | - | - | - |
| WALLEYE | - | - | - | B | B | E | C | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.006060 | 1.35184 | 0.884 | 0 | | 0.00 |
| WALLEYE | 0.002520 | 1.55866 | 0.643 | 50 | | 1.12 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: AMIKOUCANI LAKE, 1976
TOWNSHIP: BERNHART DISTRICT: TIMISKAMING LAT/LONG: 4812/8005
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 10 | 0.24 | 0.04- 0.52 | 48.5 | 34.3- 66.0 | 695 | 180- 1800 | 10.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | C | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|---------|---------|-------|----------|----|---------|
| PIKE | 0.00000 | 4.08025 | 0.839 | 60 | | 0.45 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: AUSTEN LAKE, 1977

TOWNSHIP: HINCKS

DISTRICT : TIMISKAMING

LAT/LONG: 4803/8103

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 21 | 0.32 | 0.12- | 0.80 | 43.6 | 23.2- | 63.5 | 879 | 100- | 2500 | 19.0 |
| PIKE | 4 | 0.17 | 0.08- | 0.35 | 53.0 | 31.7- | 84.0 | 1713 | 200- | 3600 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | A | B | B | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000092 | 2.13693 | 0.789 | 50 | | 0.39 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: AYLEN LAKE, 1976
TOWNSHIP: DICKENS DISTRICT: NIPISSING LAT/LONG: 4537/7751
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 10 | 0.24 | 0.17- | 0.38 | 26.9 | 26.0- | 28.0 | 255 | 200- | 275 | 0.0 |
| L. TROUT * | 9 | 0.66 | 0.24- | 1.20 | 50.1 | 32.0- | 65.0 | 1791 | 150- | 3500 | 55.6 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | A | B | C | C | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000204 | 2.03484 | 0.888 | 60 | | 0.85 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BELLOWS LAKE, 1977

TOWNSHIP: DEAGLE

DISTRICT: ALGOMA

LAT/LONG: 4619/8220

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS | 18 | 0.35 | 0.26- | 0.58 | 35.1 | 28.0- | 47.0 | 644 | 250- | 1300 | 5.6 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BENNET LAKE, 1976
 TOWNSHIP: GUILFOYLE DISTRICT: COCHRANE LAT/LONG: 4948/8218
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 6 | 0.47 | 0.29- | 0.57 | 55.1 | 48.2- | 59.0 | 1058 | 750- | 1300 | 33.3 |
| WALLEYE * | 12 | 0.53 | 0.32- | 1.10 | 46.4 | 39.8- | 53.3 | 852 | 500- | 1425 | 33.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | A | B | C | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000003 | 3.09576 | 0.622 | 50 | | 0.62 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE BERNARD, 1977
TOWNSHIP: STRONG DISTRICT: PARRY SOUND LAT/LONG: 4545/7923
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| SMELT | 5 | 0.12 | 0.10- | 0.15 | 12.0 | 11.9- | 12.1 | 11 | 11- | 11 | 0.0 |
| L. TROUT * | 32 | 0.67 | 0.40- | 1.30 | 58.1 | 45.0- | 66.0 | 2423 | 1050- | 3500 | 71.9 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | E | E | C | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000120 | 2.11425 | 0.758 | 60 | | 0.69 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BISCOTASING LAKE, 1977

TOWNSHIP: MARGARET

DISTRICT: SUDBURY

LAT/LONG: 4717/8206

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|----------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 15 | 0.63 | 0.19- | 2.80 | 41.5 | 28.0- | 70.5 | 735 | 250- | 2575 | 53.3 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BLACK RIVER, 1976

TOWNSHIP: WALKER

DISTRICT: TIMISKAMING

LAT/LONG: 48 42/8 038

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 10 | 0.90 | 0.50- 1.60 | 35.8 | 25.4- 47.0 | 335 | 100- 1000 | 100.0 |
| PIKE | 2 | 0.74 | 0.74- 0.74 | 49.4 | 47.6- 51.2 | 550 | 400- 700 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | B | B | B | C | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.004845 | 1.45083 | 0.839 | 50 | | 1.41 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CARIBOU LAKE, 1977
TOWNSHIP: MCCONKEY DISTRICT : PARRY SOUND LAT/LONG: 4555/8 005
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT * | 13 | 0.48 | 0.22- 1.20 | 49.9 | 40.5- 64.4 | 1485 | 550- 3100 | 38.5 |
| WALLEYE | 1 | 1.50 | - | 60.8 | - | 2500 | - | - |
| S.M. BASS * | 8 | 0.47 | 0.18- 0.76 | 30.8 | 16.2- 42.2 | 588 | 100- 1300 | 37.5 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | B | C | D | - |
| S.M. BASS | A | A | A | A | B | B | C | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000001 | 3.35467 | 0.931 | 60 | | 0.81 |
| S.M. BASS | 0.003148 | 1.45611 | 0.992 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CARIBOU LAKE, 1976
TOWNSHIP: MCCONKEY DISTRICT: PARRY SOUND LAT/LONG: 4556/8004
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 11 | 0.49 | 0.31- | 0.80 | 32.0 | 26.6- | 40.4 | 635 | 380- | 1100 | 45.5 |
| L. TROUT | 4 | 0.60 | 0.48- | 0.83 | 49.5 | 45.4- | 55.6 | 1500 | 1050- | 1950 | 75.0 |
| WALLEYE * | 7 | 1.19 | 0.46- | 2.00 | 49.2 | 41.0- | 56.5 | 1293 | 750- | 2000 | 85.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | A | A | B | C | - | - | - | - |
| WALLEYE | - | - | - | - | - | B | D | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000207 | 2.23159 | 0.817 | 0 | | 0.00 |
| WALLEYE | 0.000000 | 4.12038 | 0.900 | 50 | | 1.18 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CEDAR LAKE, 1977
TOWNSHIP: DEACON DISTRICT: NIPISSING LAT/LONG: 4601/7828
DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % ≥ .5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT * | 10 | 0.82 | 0.49- | 2.00 | 45.4 | 30.5- | 75.8 | 1208 | 200- | 4550 | 70.0 |
| WHITEFISH | 14 | 0.38 | 0.22- | 0.67 | 40.0 | 34.0- | 45.0 | 596 | 325- | 950 | 28.6 |
| WALLEYE * | 31 | 0.70 | 0.35- | 1.50 | 42.2 | 31.8- | 60.5 | 886 | 325- | 2400 | 61.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | B | C | C | D | D |
| WALLEYE | - | - | - | A | A | B | C | D | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.001217 | 1.68150 | 0.898 | 60 | | 1.19 |
| WALLEYE | 0.000230 | 2.12529 | 0.828 | 50 | | 0.94 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CECEBE LAKE, 1977

TOWNSHIP: CHAPMAN

DISTRICT: PARRY SOUND

LAT/LONG: 4538/7933

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE * | 30 | 0.99 | 0.40- 3.20 | 38.9 | 20.5- 74.5 | 702 | 125- 3400 | 90.0 |
| S.M. BASS * | 19 | 0.59 | 0.20- 1.77 | 31.1 | 19.5- 47.0 | 613 | 150- 1816 | 52.6 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | A | B | B | B | C | C | D | D | D |
| S.M. BASS | - | A | A | B | B | C | D | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.007774 | 1.30074 | 0.745 | 50 | | 1.26 |
| S.M. BASS | 0.000152 | 2.37515 | 0.909 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CECEBE LAKE, 1971
TOWNSHIP: CHAPMAN DISTRICT: PARRY SOUND LAT/LONG: 4538/7933
DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 2 | 1.63 | 1.46- | 1.79 | 73.4 | 71.9- | 74.9 | 2141 | 1966- | 2315 | 100.0 |
| CISCO | 3 | 0.20 | 0.17- | 0.25 | 32.6 | 29.0- | 35.6 | 312 | 186- | 395 | 0.0 |
| R. BASS | 2 | 0.45 | 0.33- | 0.57 | 26.7 | 21.6- | 31.8 | 379 | 195- | 563 | 50.0 |
| S.M. BASS * | 6 | 0.37 | 0.22- | 0.74 | 21.6 | 15.2- | 33.0 | 198 | 64- | 472 | 16.7 |
| WALLEYE * | 45 | 0.93 | 0.58- | 1.75 | 34.9 | 25.4- | 55.9 | 436 | 127- | 1698 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | A | A | A | B | B | B | - | - | - | - |
| WALLEYE | - | - | B | E | D | C | C | C | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0 \cdot L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.005883 | 1.33095 | 0.948 | 0 | | 0.00 |
| WALLEYE | 0.091083 | 0.64929 | 0.497 | 50 | | 1.15 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: COMMANDA LAKE, 1977
 TOWNSHIP: PATTERSON DISTRICT : PARRY SOUND LAT/LONG: 4601/7943
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-----------|---|---------------|-----------|-----------|--------------|-----------|---------|--------------|-------|--|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * | 6 | 1.83 | 1.20-2.20 | 42.8 | 35.0-50.0 | 717 | 350-1100 | 100.0 | | |
| S.M. BASS | 3 | 0.97 | 0.73-1.20 | 31.0 | 28.0-36.0 | 450 | 300-750 | 100.0 | | | |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | C | D | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.019054 | 1.21332 | 0.789 | 50 | | 2.19 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: COPPELL LAKE, 1977
 TOWNSHIP: LOWTHER DISTRICT: COCHRANE LAT/LONG: 4931/8349
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 15 | 0.66 | 0.24- 1.60 | 48.5 | 32.3- 61.0 | 629 | 200- 1220 | 53.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | B | B | C | D | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000048 | 2.42426 | 0.900 | 60 | | 0.98 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CRANE LAKE, 1977

TOWNSHIP: CONGER

DISTRICT : PARRY SOUND

LAT/LONG: 4513/7957

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L.M. BASS * | 15 | 0.37 | 0.15- | 0.67 | 34.6 | 26.0- | 44.5 | 646 | 227- | 1589 | 33.3 |
| S.M. BASS | 6 | 0.26 | 0.14- | 0.41 | 28.0 | 25.0- | 32.0 | 272 | 142- | 454 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L.M. BASS | - | - | A | A | A | B | B | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L.M. BASS | 0.000209 | 2.08427 | 0.590 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: DOLLARS LAKE, 1976
TOWNSHIP: BLAIR DISTRICT: PARRY SOUND LAT/LONG: 4556/8013
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS | 4 | 0.48 | 0.34- | 0.61 | 29.7 | 22.7- | 42.0 | 313 | 100- | 800 | 50.0 |
| WALLEYE * | 11 | 0.56 | 0.40- | 0.86 | 35.2 | 29.5- | 43.0 | 336 | 150- | 650 | 72.7 |
| PIKE | 2 | 0.49 | 0.40- | 0.58 | 54.0 | 54.0- | 54.0 | 850 | 800- | 900 | 50.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | B | B | C | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + A_1 L$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.004671 | 1.34227 | 0.789 | 50 | | 0.89 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: DUNCAN LAKE, 1977
 TOWNSHIP: RAYMOND DISTRICT : TIMISKAMING LAT/LONG: 4746/8 058
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 19 | 0.55 | 0.22- 2.70 | 37.1 | 27.9- 78.7 | 726 | 300- 4800 | 31.6 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | C | C | D | D |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000440 | 1.93643 | 0.903 | 50 | | 0.86 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ELK LAKE, 1977
TOWNSHIP: SMYTH DISTRICT : TIMISKAMING LAT/LONG: 47 43/8 019
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 27 | 0.74 | 0.26- 1.60 | 32.7 | 25.5- 43.9 | 356 | 120- 800 | 70.4 |
| PIKE | 4 | 0.51 | 0.33- 0.80 | 49.1 | 42.5- 55.0 | 713 | 400- 1150 | 50.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | B | B | C | D | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000608 | 2.00939 | 0.626 | 50 | | 1.58 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ELLIOT LAKE, 1976
TOWNSHIP: - DISTRICT: ALGOMA LAT/LONG: 462 3/8 242
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 10 | 0.54 | 0.16- 1.40 | 45.8 | 27.6- 66.6 | 1302 | 175- 3625 | 50.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | A | A | A | A | B | C | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000116 | 2.18591 | 0.973 | 60 | | 0.89 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ELMER LAKE, 1977
 TOWNSHIP: DOON DISTRICT : TIMISKAMING LAT/LONG: 4753/8 050
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 1 | 0.31 | - | - | 43.2 | - | - | 600 | - | - | - |
| WALLEYE | * 18 | 0.38 | 0.23 | 0.98 | 39.2 | 28.0 | 59.0 | 672 | 200 | 2300 | 11.1 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | B | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.001369 | 1.52133 | 0.861 | 50 | | 0.53 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: EMERALD LAKE, 1976

TOWNSHIP: AFTON

DISTRICT: SUDBURY

LAT/LONG: 4654/8019

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 10 | 0.07 | 0.04- | 0.11 | 37.2 | 33.0- | 43.5 | 520 | 375- | 750 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ESMEE LAKE, 1977
 TOWNSHIP: SEATON DISTRICT: COCHRANE LAT/LONG: 4857/8228
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % ≥ .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 15 | 0.29 | 0.13- 0.49 | 42.9 | 36.0- 50.0 | 680 | 375- 1200 | 0.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | A | A | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.000005 | 2.90051 | 0.823 | 50 | 0.42 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ESMEE LAKE, 1976

TOWNSHIP: SEATON

DISTRICT: COCHRANE

LAT/LONG: 4857/8228

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 17 | 0.28 | 0.12- 0.48 | 39.1 | 33.0- 46.5 | 612 | 300- 1200 | 0.0 |
| PIKE | * 21 | 0.40 | 0.14- 1.20 | 59.5 | 46.5- 75.0 | 1438 | 600- 2750 | 23.8 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | A | B | - | - | - |
| PIKE | - | - | - | - | - | A | A | A | B | C |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000055 | 2.30966 | 0.582 | 50 | | 0.46 |
| PIKE | 0.000003 | 2.84353 | 0.855 | 60 | | 0.37 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: EVANGELINE LAKE, 1976
 TOWNSHIP: MCKINNON DISTRICT: SUDBURY LAT/LONG: 46 08/8152
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 24 | 0.54 | 0.26- 1.40 | 32.7 | 22.5- 46.2 | 403 | 115- 1140 | 33.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | A | A | A | B | B | C | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000666 | 1.90136 | 0.873 | 50 | | 1.13 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: FIVE MILE LAKE, 1977

TOWNSHIP: 11D + 11E

DISTRICT: SUDBURY

LAT/LONG: 4734/8316

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH(CM.) | | | WEIGHT(GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|-------------|-------|------|-------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 10 | 0.31 | 0.13- | 0.47 | 50.2 | 42.0- | 56.2 | 770 | 500- | 1000 | 0.0 |
| WALLEYE | * 15 | 0.37 | 0.22- | 0.51 | 39.4 | 25.0- | 56.0 | 707 | 100- | 1800 | 6.7 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | A | A | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOR AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.053136 | 0.52382 | 0.515 | 50 | 0.41 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: FRANKLYN LAKE, 1976
 TOWNSHIP: NIXON DISTRICT: COCHRANE LAT/LONG: 4937/8230
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 26 | 0.92 | 0.58- | 1.30 | 43.8 | 39.4- | 52.7 | 568 | 400- | 1000 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | B | B | C | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | A1 STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000873 | 1.83825 | 0.639 | 50 | | 1.16 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: FRASER LAKE, 1976

TOWNSHIP: I.R.9

DISTRICT: PARRY SOUND

LAT/LONG: 46 03/8 005

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L.M. BASS * | 30 | 0.54 | 0.27- 0.96 | 35.0 | 28.0- 43.0 | 625 | 300- 1200 | 56.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L.M. BASS | - | - | A | A | B | B | C | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L.M. BASS | 0.000898 | 1.78742 | 0.611 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: FREDERICKHOUSE LAKE, 1976

TOWNSHIP: EVELYN

DISTRICT: COCHRANE

LAT/LONG: 48 39/8 055

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ>=.5 PPM |
|---------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 3 | 0.72 | 0.21- | 1.30 | 54.8 | 31.5- | 69.0 | 1234 | 161- | 2010 | 66.7 |
| WALLEYE | 4 | 0.49 | 0.28- | 0.98 | 32.1 | 25.6- | 36.2 | 302 | 140- | 446 | 25.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: FRENCH RIVER, 1976

TOWNSHIP: -

DISTRICT: PARRY SOUND

LAT/LONG: 4556/8 054

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 10 | 0.12 | 0.06- | 0.18 | 47.9 | 44.0- | 50.0 | 1875 | 1400- | 2200 | 0.0 |
| BURBOT * | 10 | 0.35 | 0.16- | 0.70 | 51.7 | 37.0- | 65.0 | 1175 | 500- | 1850 | 30.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| BURBOT | - | - | - | - | A | A | A | B | B | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| BURBOT | 0.000096 | 2.05132 | 0.852 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: FUSHIMI LAKE, 1977

TOWNSHIP: STODDART

DISTRICT: COCHRANE

LAT/LONG: 4950/8354

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM) | | | WEIGHT (GM) | | | % >= .5 PPM |
|----------|------|---------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 16 | 0.45 | 0.21- | 1.00 | 51.3 | 38.0- | 96.0 | 1033 | 350- | 6000 | 25.0 |
| WALLEYE | * 18 | 0.42 | 0.27- | 1.20 | 32.9 | 22.5- | 63.0 | 379 | 50- | 2600 | 11.1 |
| Y. PERCH | 2 | 0.28 | 0.18- | 0.37 | 26.0 | 24.0- | 28.0 | 200 | 150- | 250 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | B | C |
| WALLEYE | - | A | A | A | A | B | B | C | C | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000478 | 1.71920 | 0.801 | 60 | | 0.55 |
| WALLEYE | 0.002666 | 1.43402 | 0.858 | 50 | | 0.73 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GIROUX LAKE, 1975

TOWNSHIP: COLEMAN

DISTRICT: TIMISKAMING

LAT/LONG: 4722/7940

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 2 | 0.46 | 0.37- | 0.54 | 39.4 | 33.3- | 45.5 | 725 | 450- | 1000 | 50.0 |
| PIKE | * 23 | 0.26 | 0.19- | 0.45 | 35.9 | 26.8- | 45.5 | 261 | 75- | 550 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | A | A | A | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.003304 | 1.21833 | 0.735 | 60 | | 0.48 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GOUGH LAKE, 1975

TOWNSHIP: GOUGH

DISTRICT: SUDBURY

LAT/LONG: 4618/8158

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 67 | 0.72 | 0.25- 2.00 | 40.4 | 15.0- 65.0 | 836 | 50- 3000 | 68.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | A | A | A | A | B | B | C | C | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.004537 | 1.35397 | 0.832 | 50 | | 0.91 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GOWGANDA LAKE, 1977
 TOWNSHIP: MILNER DISTRICT : TIMISKAMING LAT/LONG: 4738/8047
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|-----|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 4 | 0.16 | 0.14- | 0.18 | 44.1 | 35.5- | 50.8 | 700 | 450- | 900 | 0.0 |
| WALLEYE | * 25 | 0.34 | 0.26- | 0.57 | 36.1 | 30.5- | 43.2 | 468 | 300- | 750 | 4.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | A | B | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.003665 | 1.26264 | 0.674 | 50 | | 0.51 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GRIFFIN LAKE, 1977
 TOWNSHIP: GRIFFIN DISTRICT: COCHRANE LAT/LONG: 4805/8223
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 15 | 0.88 | 0.38- 1.60 | 42.1 | 26.0- 52.0 | 633 | 57- 1249 | 86.7 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | B | B | B | C | C | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.008315 | 1.22861 | 0.537 | 50 | 1.02 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GROUNDHOG RIVER, 1976

TOWNSHIP: CLAY

DISTRICT: COCHRANE

LAT/LONG: 49 3/8 158

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|----------|----|---------------|------------|--------------|--------------|--------------|---------------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| STURGEON | 31 | 0.17 | 0.04- 0.62 | 118.3 | 104.0- 140.0 | 10491 | 6 350- 16 329 | 3.2 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GUILFOYLE LAKE, 1977
TOWNSHIP: GUILFOYLE DISTRICT: COCHRANE LAT/LONG: 4945/8221
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH(CM.) | | | WEIGHT(GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|-------------|-------|------|-------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 15 | 0.35 | 0.17- | 0.61 | 40.6 | 31.5- | 48.0 | 767 | 220- | 3750 | 20.0 |
| PIKE | * 15 | 0.35 | 0.11- | 0.67 | 54.9 | 42.5- | 73.0 | 1139 | 660- | 2400 | 26.7 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | A | B | B |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOR AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000017 | 2.44669 | 0.665 | 60 | 0.38 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GUILFOYLE LAKE, 1976
 TOWNSHIP: GUILFOYLE DISTRICT: COCHRANE LAT/LONG: 4945/8221
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-----------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 18 | 0.34 | 0.19- | 0.73 | 37.4 | 26.6- | 43.2 | 394 | 100- | 550 | 11.1 |
| PIKE | 15 | 0.27 | 0.12- | 0.46 | 50.6 | 43.8- | 59.7 | 783 | 450- | 1150 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000335 | 1.89258 | 0.667 | 50 | | 0.55 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HAMLOCK#1 LAKE, 1976
TOWNSHIP: I.R.9 DISTRICT: PARRY SOUND LAT/LONG: 4606/8006
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L.M. BASS * | 29 | 0.48 | 0.20- | 1.40 | 26.7 | 22.0- | 40.0 | 316 | 100- | 1050 | 31.0 |
| R. BASS | 3 | 0.68 | 0.49- | 0.78 | 17.3 | 16.0- | 19.0 | 117 | 100- | 150 | 66.7 |
| PIKE | 3 | 0.73 | 0.54- | 0.85 | 66.3 | 61.0- | 75.0 | 2167 | 1600- | 3050 | 100.0 |
| W. SUCKER | 4 | 0.06 | 0.04- | 0.10 | 37.5 | 36.0- | 40.0 | 650 | 600- | 750 | 0.0 |
| B. BULLHEAD | 1 | 0.05 | - | - | 22.0 | - | - | 200 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L.M. BASS | - | A | A | B | B | C | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L.M. BASS | 0.002992 | 1.52204 | 0.610 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HAMLOCK#2 LAKE, 1976
TOWNSHIP: I.R.#9 DISTRICT: PARRY SOUND LAT/LONG: 4606/8006
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | 7 | 0.40 | 0.14- | 0.67 | 23.1 | 21.0- | 25.0 | 157 | 100- | 200 | 28.6 |
| R. BASS | 5 | 0.47 | 0.41- | 0.52 | 19.6 | 18.0- | 22.0 | 150 | 100- | 200 | 60.0 |
| P. SEED | 2 | 0.24 | 0.23- | 0.24 | 15.0 | 15.0- | 15.0 | 75 | 50- | 100 | 0.0 |
| L.M. BASS * | 26 | 0.21 | 0.03- | 0.56 | 27.3 | 23.0- | 40.0 | 321 | 150- | 1050 | 3.8 |
| B. BULLHEAD | 1 | 0.11 | - | - | 31.0 | - | - | 500 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L.M. BASS | - | - | A | A | A | B | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L.M. BASS | 0.000082 | 2.30978 | 0.453 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HANLAN LAKE, 1977

TOWNSHIP: HANLAN

DISTRICT: COCHRANE

LAT/LONG: 4950/8 348

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 15 | 0.47 | 0.23- | 1.20 | 34.8 | 27.5- | 65.0 | 457 | 125- | 2450 | 26.7 |
| PIKE | * 15 | 0.63 | 0.22- | 1.10 | 60.5 | 31.0- | 84.0 | 1842 | 400- | 4100 | 66.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | B | C | C | - |
| PIKE | - | - | - | A | A | A | B | E | B | B |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.003837 | 1.33468 | 0.689 | 50 | | 0.71 |
| PIKE | 0.004036 | 1.21940 | 0.724 | 60 | | 0.59 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HARRIS LAKE, 1976
 TOWNSHIP: I.R.9 DISTRICT: PARRY SOUND LAT/LONG: 4606/8007
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L.M. BASS * | 28 | 0.46 | 0.24- 0.96 | 28.6 | 22.0- 36.0 | 339 | 150- 800 | 32.1 |
| Y. PERCH | 1 | 0.08 | - - | 26.0 | - - | 200 | - - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L.M. BASS | - | A | A | B | B | C | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L.M. BASS | 0.000288 | 2.18842 | 0.831 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HIGHBRUSH LAKE, 1977
TOWNSHIP: 13 G DISTRICT: SUDBURY LAT/LONG: 4745/8333
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 12 | 0.35 | 0.19- | 0.65 | 48.6 | 39.0- | 59.5 | 650 | 250- | 1000 | 25.0 |
| WHITEFISH | 15 | 0.14 | 0.08- | 0.38 | 43.1 | 32.7- | 54.6 | 860 | 100- | 2000 | 0.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000011 | 2.66499 | 0.897 | 60 | 0.59 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HOGAN LAKE, 1976

TOWNSHIP: FRESWICK

DISTRICT: NIPISSING

LAT/LONG: 4552/78 30

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | % > .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| B. TROUT | * 17 | 0.23 | 0.06- 0.44 | 32.3 | 22.0- 42.5 | 525 | 150- 1000 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| B. TROUT | - | A | A | A | A | A | B | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| B. TROUT | 0.000062 | 2.33058 | 0.855 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HORWOOD LAKE, 1977
 TOWNSHIP: HORWOOD DISTRICT: SUDBURY LAT/LONG: 4800/8220
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 15 | 0.64 | 0.40- | 0.96 | 39.6 | 27.7- | 46.0 | 747 | 200- | 1100 | 86.7 |
| PIKE | * 15 | 0.43 | 0.22- | 1.30 | 47.9 | 33.3- | 66.4 | 813 | 300- | 1800 | 26.7 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | B | B | C | - | - | - |
| PIKE | - | - | - | A | A | A | B | B | C | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOR AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.002781 | 1.47570 | 0.850 | 50 | 0.89 |
| PIKE | 0.000039 | 2.38347 | 0.831 | 60 | 0.67 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HORWOOD LAKE, 1976

TOWNSHIP: HORWOOD

DISTRICT: SUDBURY

LAT/LONG: 48 00/8 220

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER | 6 | 0.33 | 0.15- | 0.52 | 45.4 | 42.5- | 50.5 | 1504 | 1180- | 2010 | 16.7 |
| WHITEFISH | 6 | 0.41 | 0.16- | 0.77 | 45.5 | 41.0- | 49.0 | 1612 | 1340- | 1875 | 33.3 |
| PIKE | 3 | 0.62 | 0.53- | 0.70 | 50.5 | 47.5- | 53.5 | 990 | 870- | 1060 | 100.0 |
| CISCO | 3 | 0.33 | 0.29- | 0.39 | 27.7 | 22.5- | 34.0 | 357 | 150- | 680 | 0.0 |
| WALLEYE | 6 | 1.77 | 1.20- | 2.10 | 54.3 | 46.0- | 58.5 | 2019 | 1140- | 2510 | 100.0 |

MERCURY DATA SUMMARY

ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HOWARD LAKE, 1976

TOWNSHIP: ARNOLD

DISTRICT: TIMISKAMING

LAT/LONG: 4814/7949

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 10 | 0.56 | 0.37- | 0.85 | 53.3 | 42.0- | 72.0 | 1070 | 400- | 2300 | 60.0 |
| WALLEYE | 5 | 0.80 | 0.52- | 1.20 | 38.0 | 32.0- | 51.5 | 550 | 300- | 1150 | 100.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: IVANHOE LAKE, 1977

TOWNSHIP: -

DISTRICT: SUDBURY

LAT/LONG: 4806/8235

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | >= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.43 | 0.20- | 1.20 | 47.4 | 35.5- | 71.0 | 702 | 300- | 2100 | 26.7 |
| WALLEYE | * 15 | 0.47 | 0.21- | 0.65 | 40.4 | 19.0- | 62.5 | 748 | 100- | 1875 | 33.3 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | B | B | C | C |
| WALLEYE | - | A | A | A | A | B | B | B | E | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000077 | 2.21226 | 0.838 | 60 | 0.66 |
| WALLEYE | 0.030224 | 0.73654 | 0.739 | 50 | 0.54 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: JOWSEY LAKE, 1976
TOWNSHIP: CARSCALLEN DISTRICT: COCHRANE LAT/LONG: 4822/8144
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 9 | 0.51 | 0.26- | 1.00 | 39.6 | 34.5- | 48.4 | 565 | 350- | 1050 | 33.3 |
| W. SUCKER | 2 | 0.06 | 0.04- | 0.08 | 37.8 | 36.0- | 39.5 | 616 | 549- | 682 | 0.0 |
| PIKE | * 6 | 0.22 | 0.16- | 0.31 | 45.9 | 37.1- | 56.7 | 620 | 262- | 1010 | 0.0 |
| Y. PERCH | * 15 | 0.17 | 0.08- | 0.29 | 25.8 | 19.8- | 29.0 | 195 | 80- | 331 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | A | B | D | - | - | - |
| PIKE | - | - | - | - | A | A | A | A | - | - |
| Y. PERCH | - | A | A | A | A | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000000 | 4.12527 | 0.863 | 50 | | 1.20 |
| PIKE | 0.002904 | 1.13037 | 0.835 | 60 | | 0.30 |
| Y. PERCH | 0.000142 | 2.17244 | 0.569 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KAMISKOTIA LAKE, 1976
TOWNSHIP: ROBB DISTRICT: COCHRANE LAT/LONG: 4834/8138
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|-----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 8 | 0.28 | 0.19- | 0.38 | 50.3 | 42.5- | 55.0 | 775 | 470- | 1090 | 0.0 |
| WALLEYE | 4 | 0.48 | 0.32- | 0.56 | 39.8 | 31.9- | 44.8 | 488 | 251- | 630 | 75.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | A | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000057 | 2.16695 | 0.710 | 60 | | 0.40 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KAPUSKASING RIVER, 1974

TOWNSHIP: - DISTRICT: COCHRANE

LAT/LONG: 4949/8200

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|---|---------------|-------|--------------|-------|--------------|-------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | 1 | 2.90 | - - | 76.5 | - - | 4989 | - - | - |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KECIL LAKE, 1977

TOWNSHIP: VICTORIA

DISTRICT: ALGOMA

LAT/LONG: 4615/8218

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 15 | 0.77 | 0.28- 1.30 | 62.7 | 49.0- 78.2 | 1980 | 700- 4100 | 73.3 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | B | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOR AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000028 | 2.44634 | 0.731 | 60 | 0.63 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KEENOA LAKE, 1977

TOWNSHIP: FENTON
DATA SOURCE: MOE

DISTRICT: COCHRANE

LAT/LONG: 4859/8228

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.25 | 0.12- | 0.66 | 46.2 | 32.0- | 54.0 | 567 | 200- | 900 | 6.7 |
| WALLEYE | * 15 | 0.25 | 0.08- | 1.20 | 33.1 | 20.0- | 54.0 | 382 | 50- | 1300 | 6.7 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | A | A | B | - | - |
| WALLEYE | - | A | A | A | A | A | B | B | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000017 | 2.48527 | 0.719 | 60 | 0.44 |
| WALLEYE | 0.000077 | 2.24687 | 0.934 | 50 | 0.51 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KEENOA LAKE, 1976

TOWNSHIP: FENTON

DISTRICT: COCHRANE

LAT/LONG: 4859/8228

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|-----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 8 | 0.63 | 0.20- | 1.00 | 45.4 | 37.0- | 54.0 | 1000 | 600- | 1500 | 50.0 |
| PIKE | 10 | 0.36 | 0.17- | 0.74 | 50.0 | 41.5- | 56.5 | 790 | 400- | 1300 | 20.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | A | B | C | D | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000000 | 4.02999 | 0.918 | 50 | | 0.85 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KENOGAMI LAKE, 1976
TOWNSHIP: GRENFELL DISTRICT: TIMISKAMING LAT/LONG: 4806/8014
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|-----|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 10 | 0.37 | 0.26- | 0.57 | 37.8 | 31.5- | 45.5 | 510 | 250- | 850 | 10.0 |
| PIKE | 5 | 0.37 | 0.23- | 0.68 | 45.6 | 39.0- | 57.0 | 530 | 350- | 850 | 20.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | B | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000419 | 1.86048 | 0.816 | 50 | | 0.61 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KENOGAMING LAKE, 1976

TOWNSHIP: REGAN

DISTRICT: SUDBURY

LAT/LONG: 4805/8155

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %> .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-----------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITFISH | 14 | 0.16 | 0.11- | 0.25 | 33.7 | 30.7- | 37.2 | 490 | 350- | 700 | 0.0 |
| PIKE | * 39 | 0.29 | 0.12- | 0.71 | 49.5 | 36.2- | 61.1 | 855 | 350- | 1550 | 2.6 |
| W. SUCKER | * 17 | 0.07 | 0.03- | 0.18 | 37.0 | 21.2- | 47.1 | 779 | 125- | 1300 | 0.0 |
| WALLEYE | * 11 | 0.56 | 0.29- | 1.50 | 39.6 | 32.0- | 55.4 | 748 | 350- | 1750 | 27.3 |
| CISCO | 1 | 0.16 | - | - | 26.7 | - | - | 225 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | A | B | - |
| W. SUCKER | - | A | A | A | A | A | A | - | - | - |
| WALLEYE | - | - | - | A | A | B | C | D | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000227 | 1.82586 | 0.621 | 60 | | 0.40 |
| W. SUCKER | 0.000145 | 1.67410 | 0.654 | 0 | | 0.00 |
| WALLEYE | 0.000009 | 2.97400 | 0.921 | 50 | | 0.99 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KENOGAMISSI LAKE, 1976
TOWNSHIP: - DISTRICT: TIMISKAMING LAT/LONG: 4815/8133
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 17 | 0.52 | 0.26- | 1.30 | 24.0 | 16.5- | 56.0 | 199 | 24- | 1500 | 41.2 |
| W. SUCKER | 1 | 0.50 | - | - | 49.7 | - | - | 1380 | - | - | - |
| PIKE | 3 | 0.57 | 0.45- | 0.73 | 55.9 | 51.5- | 59.6 | 1114 | 945- | 1408 | 66.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | A | A | B | B | B | C | C | C | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.017468 | 1.05983 | 0.855 | 50 | | 1.10 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KERNICK LAKE, 1976

TOWNSHIP: ARDUR

DISTRICT: PARRY SOUND

LAT/LONG: 4537/7921

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (G.) | | | % >= .5 PPM |
|-------------|---|---------------|-------|------|--------------|-------|------|-------------|-------|-----|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 8 | 0.19 | 0.12- | 0.30 | 22.5 | 17.1- | 34.3 | 202 | 50- | 575 | 0.0 |
| Y. PERCH * | 9 | 0.46 | 0.15- | 0.91 | 23.8 | 18.1- | 31.0 | 159 | 50- | 350 | 33.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | A | A | - | - | - | - |
| Y. PERCH | - | A | A | B | C | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.008979 | 0.98255 | 0.920 | 0 | | 0.00 |
| Y. PERCH | 0.000127 | 2.55645 | 0.863 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KIOSHKOKWI LAKE, 1977
 TOWNSHIP: PENILAND DISTRICT: NIPISSING LAT/LONG: 4605/7853
 DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 10 | 1.25 | 0.24- 3.90 | 45.6 | 29.1- 70.5 | 1173 | 125- 3600 | 80.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | B | C | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000046 | 2.56997 | 0.897 | 60 | | 1.70 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KIOSHKOKWI LAKE, 1976
TOWNSHIP: PENTLAND DISTRICT: NIPISSING LAT/LONG: 4605/7853
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|---|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WHITEFISH * | 8 | 0.39 | 0.16- 0.73 | 40.7 | 35.5- 45.5 | 988 | 500- 1400 | 25.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | - | A | B | D | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000000 | 5.18357 | 0.754 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LACLOCHE LAKE, 1975
TOWNSHIP: HARROW DISTRICT: SUDBURY LAT/LONG: 4610/8204
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 32 | 0.92 | 0.34- | 1.60 | 48.5 | 26.0- | 68.0 | 1688 | 150- | 3800 | 87.5 |
| PIKE | * 10 | 0.56 | 0.29- | 1.10 | 51.3 | 42.0- | 73.0 | 1095 | 500- | 2450 | 40.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | <6 | 6-8 | 8-10 | SIZE RANGE IN INCHES | | | | | | |
|---------|----|-----|------|----------------------|-------|-------|-------|-------|-------|-----|
| | | | | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | B | B | C | C | D | - |
| PIKE | - | - | - | - | - | A | B | B | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.003379 | 1.43546 | 0.903 | 50 | | 0.93 |
| PIKE | 0.000032 | 2.45806 | 0.946 | 60 | | 0.76 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE LAMUIR, 1976
 TOWNSHIP: BISHOP DISTRICT: NIPISSING LAT/LONG: 4550/78 35
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 11 | 0.50 | 0.14- 1.20 | 57.5 | 40.0- 70.0 | 2028 | 550- 3800 | 45.5 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | A | B | C | D |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000001 | 3.10871 | 0.797 | 60 | | 0.49 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LANG LAKE, 1977
 TOWNSHIP: SHEDDEN DISTRICT: ALGOMA LAT/LONG: 4616/8219
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|------------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 15 | 0.97 | 0.29- 1.60 | 71.4 | 56.0- 87.0 | 3138 | 1150- 5550 | 86.7 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | - | A | B | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000005 | 2.83031 | 0.835 | 60 | 0.55 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LARDER LAKE, 1976

TOWNSHIP: MCGARRY

DISTRICT: TIMISKAMINC

LAT/LONG: 4805/7938

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | * 10 | 0.35 | 0.12- | 0.55 | 51.7 | 32.0- | 74.0 | 1351 | 90- | 3514 | 40.0 |
| WHITFISH | 10 | 0.16 | 0.05- | 0.29 | 37.8 | 29.5- | 44.0 | 544 | 95- | 907 | 0.0 |
| PIKE | * 10 | 0.34 | 0.16- | 0.55 | 52.2 | 41.0- | 68.0 | 1111 | 340- | 2600 | 10.0 |
| WALLEYE | 1 | 0.28 | - | - | 44.5 | - | - | 952 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | A | A | A | E | E |
| PIKE | - | - | - | - | - | A | A | B | E | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000442 | 1.67684 | 0.888 | 60 | | 0.42 |
| PIKE | 0.000182 | 1.89039 | 0.635 | 60 | | 0.42 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LE GROU LAKE, 1977
TOWNSHIP: MILLS DISTRICT : PARRY SOUND LAT/LONG: 4551/7954
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | 5 | 1.58 | 0.32- 4.80 | 47.8 | 34.0- 70.0 | 1490 | 350- 4400 | 80.0 |
| S.M. BASS * | 16 | 0.50 | 0.34- 0.77 | 32.1 | 25.0- 48.0 | 503 | 200- 1100 | 56.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | A | A | B | B | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.012601 | 1.06010 | 0.783 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LITTLE FRENCH RIVER, 1976

TOWNSHIP: -

DISTRICT: PARRY SOUND

LAT/LONG: 4556/8054

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 4 | 0.24 | 0.21- | 0.29 | 48.8 | 43.0- | 56.0 | 788 | 500- | 1300 | 0.0 |
| S.M. BASS | 3 | 0.19 | 0.18- | 0.20 | 24.3 | 24.0- | 25.0 | 200 | 150- | 250 | 0.0 |
| Y. PERCH | 2 | 0.24 | 0.21- | 0.27 | 23.0 | 22.0- | 24.0 | 200 | 200- | 200 | 0.0 |
| R. BASS | 4 | 0.17 | 0.12- | 0.20 | 17.0 | 16.0- | 18.0 | 138 | 100- | 150 | 0.0 |
| P SEED | 1 | 0.04 | - | - | 14.0 | - | - | 75 | - | - | - |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LITTLE SERPENT LAKE, 1977

TOWNSHIP: DEAGLE DISTRICT: ALGOMA

LAT/LONG: 4618/8221

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 15 | 0.97 | 0.29- 1.40 | 40.8 | 35.0- 46.0 | 1077 | 725- 1550 | 93.3 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | - | - | A | D | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|-----------|----------|---------|-------|---------|------------|
| S.M. BASS | 0.000000 | 4.69551 | 0.814 | 0 | 0.00 |

700

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LITTLE TOMIKO LAKE, 1977

TOWNSHIP: STEWART

DISTRICT : NIPISSING

LAT/LONG: 46 33/7927

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 19 | 0.78 | 0.34- | 1.60 | 51.9 | 41.0- | 74.0 | 1445 | 650- | 3900 | 89.5 |
| Y. PERCH | * 15 | 0.22 | 0.06- | 0.58 | 23.6 | 16.0- | 33.0 | 157 | 25- | 400 | 6.7 |
| S.M. BASS | 4 | 0.49 | 0.29- | 0.89 | 38.5 | 36.0- | 44.0 | 933 | 400- | 1700 | 25.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | B | B | C | C | C |
| Y. PERCH | A | A | A | A | B | C | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.003715 | 1.34153 | 0.522 | 50 | | 0.71 |
| Y. PERCH | 0.000021 | 2.86080 | 0.927 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LOHI LAKE, 1976

TOWNSHIP: BRODER

DISTRICT: SUDBURY

LAT/LONG: 462 3/8 102

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B. TROUT | 9 | 0.07 | 0.05- | 0.08 | 15.8 | 12.3- | 19.0 | 35 | 14- | 58 | 0.0 |
| P SEED | 1 | 0.19 | - | - | 14.8 | - | - | 70 | - | - | - |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LONG LAKE, 1977

TOWNSHIP: MILNER

DISTRICT : TIMISKAMING

LAT/LONG: 4737/8050

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 15 | 0.69 | 0.38- 1.20 | 41.8 | 28.5- 57.0 | 559 | 350- 1150 | 73.3 |
| WALLEYE | * 34 | 0.98 | 0.38- 3.00 | 35.3 | 23.0- 66.5 | 600 | 150- 3220 | 79.4 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | B | B | C | C | - | - |
| WALLEYE | - | - | B | B | B | C | C | D | D | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.002066 | 1.54614 | 0.657 | 60 | | 1.16 |
| WALLEYE | 0.025496 | 0.98104 | 0.451 | 50 | | 1.18 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LOWER FRENCH RIVER, 1976
TOWNSHIP: - DISTRICT: PARRY SOUND LAT/LONG: 4556/8 054
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 2 | 0.40 | 0.23- | 0.56 | 58.0 | 47.5- | 68.5 | 1600 | 700- | 2500 | 50.0 |
| S.M. BASS | 12 | 0.29 | 0.16- | 0.53 | 29.5 | 20.1- | 41.0 | 479 | 200- | 1150 | 8.3 |
| R. BASS | 2 | 0.29 | 0.24- | 0.34 | 21.4 | 19.8- | 23.0 | 250 | 200- | 300 | 0.0 |
| WALLEYE * | 23 | 0.50 | 0.32- | 1.20 | 41.5 | 30.3- | 60.0 | 741 | 300- | 1950 | 39.1 |
| B. BULLHEAD | 1 | 0.10 | - | - | 26.0 | - | - | 350 | - | - | - |
| C. CATFISH | 1 | 0.62 | - | - | 57.2 | - | - | 2000 | - | - | - |
| CISCO | 1 | 0.11 | - | - | 30.1 | - | - | 400 | - | - | - |
| WHITEFISH | 1 | 0.14 | - | - | 39.0 | - | - | 750 | - | - | - |
| W. SUCKER * | 12 | 0.15 | 0.04- | 0.36 | 40.2 | 32.0- | 48.0 | 863 | 500- | 1350 | 0.0 |
| R.H. SUCKER | 2 | 0.32 | 0.32- | 0.32 | 49.5 | 48.7- | 50.3 | 1600 | 1500- | 1700 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | B | B | C | - | - |
| W. SUCKER | - | - | - | A | A | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000590 | 1.79611 | 0.677 | 50 | | 0.66 |
| W. SUCKER | 0.000000 | 3.38779 | 0.671 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MANITOU LAKE, 1975
 TOWNSHIP: SANDFIELD DISTRICT: MANITOULIN LAT/LONG: 4545/8200
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 35 | 0.24 | 0.08- 0.54 | 51.7 | 26.4- 72.1 | 1535 | 141- 3859 | 5.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | A | A | A | A | A | A | A | A |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000502 | 1.54700 | 0.921 | 60 | | 0.28 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MARTISON LAKE, 1977
TOWNSHIP: - DISTRICT: COCHRANE LAT/LONG: 5018/8315
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 15 | 0.68 | 0.16- | 1.20 | 41.2 | 37.0- | 46.0 | 478 | 305- | 712 | 80.0 |
| PIKE | * 12 | 0.54 | 0.29- | 1.00 | 60.3 | 50.5- | 76.0 | 1128 | 611- | 2239 | 66.7 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | B | B | C |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000234 | 1.88118 | 0.720 | 60 | 0.52 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MATITAGAMI RIVER, 1975

TOWNSHIP: REID

DISTRICT: COCHRANE

LAT/LONG: 4845/8132

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥.5 PPM |
|-----------|-------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 113 | 0.42 | 0.21- | 1.30 | 40.9 | 27.9- | 62.2 | 698 | 210- | 2290 | 16.8 |
| WHITEFISH | 1 | 0.09 | - | - | 14.7 | - | - | 309 | - | - | - |
| PIKE | * 21 | 0.42 | 0.16- | 0.98 | 53.2 | 42.2- | 69.9 | 934 | 320- | 2350 | 23.8 |
| Y. PERCH | 15 | 0.35 | 0.15- | 0.68 | 28.4 | 23.1- | 34.5 | 358 | 160- | 590 | 13.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | B | B | B | - |
| PIKE | - | - | - | - | - | A | A | B | B | C |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.002815 | 1.33753 | 0.694 | 50 | | 0.53 |
| PIKE | 0.000063 | 2.19236 | 0.683 | 60 | | 0.50 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MATTAGAMI LAKE, 1976

TOWNSHIP: - DISTRICT: SUDBURY

LAT/LONG: 4754/8135

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 36 | 0.90 | 0.52- | 2.10 | 36.0 | 25.9- | 51.0 | 596 | 200- | 1400 | 100.0 |
| PIKE | * 14 | 1.26 | 0.60- | 2.40 | 51.1 | 36.5- | 71.5 | 1136 | 350- | 3000 | 100.0 |
| WHITEFISH | 6 | 0.34 | 0.23- | 0.52 | 38.7 | 34.0- | 44.9 | 950 | 550- | 1350 | 16.7 |
| BURBOT | 2 | 0.83 | 0.35- | 1.30 | 39.5 | 28.8- | 50.2 | 400 | 150- | 650 | 50.0 |
| W. SUCKER | 1 | 0.20 | - | - | 40.0 | - | - | 1100 | - | - | - |
| Y. PERCH | 1 | 1.00 | - | - | 22.2 | - | - | 180 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | B | B | B | C | D | D | - | - |
| PIKE | - | - | - | - | B | B | C | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.004233 | 1.48419 | 0.718 | 50 | | 1.41 |
| PIKE | 0.000339 | 2.07674 | 0.918 | 60 | | 1.67 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MC CARTHY LAKE, 1976

TOWNSHIP: PROCTOR

DISTRICT: ALCONA

LAT/LONG: 4619/8228

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>= .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 10 | 1.48 | 1.00- | 2.10 | 60.1 | 50.4- | 71.8 | 2470 | 1300- | 4450 | 100.0 |
| L. TROUT | 1 | 0.54 | - | - | 39.8 | - | - | 550 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | B | C | D | D | D |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000642 | 1.88446 | 0.786 | 50 | | 1.02 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MCCRANEY LAKE, 1977
TOWNSHIP: MCCRANEY DISTRICT : NIPISSING LAT/LONG: 4534/7854
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % ≥ .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|---------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 16 | 0.35 | 0.06- 0.71 | 37.2 | 17.5- 43.8 | 505 | 50- 900 | 25.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | A | A | A | A | B | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000014 | 2.76314 | 0.895 | 60 | | 1.11 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MCLEISTER LAKE, 1977

TOWNSHIP: -

DISTRICT: COCHRANE

LAT/LONG: 5003/8254

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH(CM.) | | WEIGHT(CM.) | | %>= .5 PPM |
|---------|------|---------------|------------|-------------|------------|-------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 15 | 0.34 | 0.21- 0.54 | 42.3 | 38.0- 48.0 | 633 | 450- 1000 | 6.7 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | A | A | B | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOR AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.000008 | 2.84354 | 0.778 | 50 | 0.53 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MEMESAGAMESING LAKE, 1975
TOWNSHIP: HARDY DISTRICT: PARRY SOUND LAT/LONG: 4600/8000
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-----------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE * | 34 | 1.75 | 0.58- | 3.30 | 53.1 | 30.0- | 76.0 | 2164 | 700- | 5600 | 100.0 |
| S.M. BASS * | 19 | 0.76 | 0.36- | 1.50 | 28.9 | 17.0- | 37.5 | 558 | 200- | 850 | 84.2 |
| PIKE | 5 | 1.20 | 0.77- | 1.60 | 65.2 | 53.0- | 76.0 | 2260 | 1500- | 3200 | 100.0 |
| R. BASS | 1 | 0.87 | - | - | 18.0 | - | - | 200 | - | - | - |
| W. SUCKER | 4 | 0.19 | 0.09- | 0.27 | 37.9 | 30.7- | 42.0 | 975 | 800- | 1100 | 0.0 |
| WHITEFISH | 2 | 0.27 | 0.25- | 0.28 | 36.0 | 36.0- | 36.0 | 1175 | 700- | 1650 | 0.0 |
| L. TROUT * | 6 | 2.73 | 1.00- | 4.80 | 68.3 | 50.0- | 78.0 | 4192 | 1500- | 6000 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | B | C | D | D | D | D |
| S.M. BASS | - | A | B | E | C | C | - | - | - | - |
| L. TROUT | - | - | - | - | - | B | C | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000224 | 2.23754 | 0.932 | 50 | | 1.42 |
| S.M. BASS | 0.004405 | 1.52462 | 0.892 | 0 | | 0.00 |
| L. TROUT | 0.000016 | 2.82939 | 0.918 | 60 | | 1.77 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MESOMIKENDA LAKE, 1976

TOWNSHIP: CHESTER

DISTRICT: SUDBURY

LAT/LONG: 4740/8153

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 45 | 1.00 | 0.40- | 2.90 | 41.5 | 27.0- | 61.5 | 916 | 200- | 3050 | 95.6 |
| PIKE | * 7 | 0.55 | 0.30- | 0.95 | 46.7 | 37.4- | 52.6 | 721 | 350- | 1000 | 57.1 |
| W. SUCKER | * 9 | 0.17 | 0.04- | 0.47 | 36.8 | 29.0- | 44.4 | 839 | 300- | 1300 | 0.0 |
| WHITEFISH | 2 | 0.16 | 0.10- | 0.22 | 40.8 | 39.6- | 42.0 | 1000 | 1000- | 1000 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | B | C | D | D | D | - |
| PIKE | - | - | - | - | A | A | B | D | - | - |
| W. SUCKER | - | - | - | A | A | A | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000198 | 2.27032 | 0.827 | 50 | | 1.42 |
| PIKE | 0.000002 | 3.29052 | 0.865 | 60 | | 1.19 |
| W. SUCKER | 0.000000 | 3.50630 | 0.812 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MINDEMOYA LAKE, 1975
 TOWNSHIP: CARNARVON DISTRICT: MANITOULIN LAT/LONG: 4545/8213
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|-------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | * 37 | 0.18 | 0.05- | 0.32 | 25.8 | 13.0- | 32.0 | 319 | 85- | 568 | 0.0 |
| WALLEYE | * 106 | 0.16 | 0.04- | 0.54 | 30.1 | 5.0- | 54.0 | 316 | 57- | 1363 | 1.9 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | A | A | A | A | A | - | - | - | - | - |
| WALLEYE | A | A | A | A | A | A | A | A | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.000169 | 2.12608 | 0.891 | 0 | | 0.00 |
| WALLEYE | 0.001593 | 1.31724 | 0.698 | 50 | | 0.28 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MINISINAKWA LAKE, 1976

TOWNSHIP: NOBLE

DISTRICT: SUDBURY

LAT/LONG: 4739/8144

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| CISCO | * 21 | 0.23 | 0.16- | 0.36 | 22.2 | 16.3- | 28.0 | 171 | 50- | 350 | 0.0 |
| W. SUCKER | * 10 | 0.22 | 0.08- | 0.38 | 36.7 | 21.0- | 48.0 | 865 | 150- | 1800 | 0.0 |
| PIKE | * 12 | 0.74 | 0.25- | 2.20 | 49.6 | 35.5- | 60.0 | 960 | 300- | 1850 | 75.0 |
| WALLEYE | * 51 | 0.83 | 0.20- | 2.40 | 37.1 | 20.8- | 69.2 | 766 | 100- | 3550 | 88.2 |
| WHITEFISH | 2 | 0.24 | 0.21- | 0.27 | 28.9 | 21.1- | 36.7 | 425 | 150- | 700 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| CISCO | A | A | A | A | A | - | - | - | - | - |
| W. SUCKER | - | A | A | A | A | A | A | - | - | - |
| PIKE | - | - | - | - | A | B | B | C | - | - |
| WALLEYE | - | A | A | E | B | C | D | D | D | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| CISCO | 0.002992 | 1.39709 | 0.780 | 0 | | 0.00 |
| W. SUCKER | 0.001017 | 1.47000 | 0.763 | 0 | | 0.00 |
| PIKE | 0.000018 | 2.69286 | 0.826 | 60 | | 1.09 |
| WALLEYE | 0.002603 | 1.58103 | 0.918 | 50 | | 1.26 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MINNOW LAKE, 1975

TOWNSHIP: MCKIM

DISTRICT: SUDBURY

LAT/LONG: 4629/8057

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER | 50 | 0.02 | 0.02- | 0.08 | 24.0 | 16.0- | 28.5 | 164 | 40- | 245 | 0.0 |
| Y. PERCH | 14 | 0.03 | 0.02- | 0.05 | 12.9 | 9.5- | 15.0 | 32 | 15- | 40 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MISEMA LAKE, 1977

TOWNSHIP: ARNOLD

DISTRICT : TIMISKAMING

LAT/LONG: 4813/7945

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE * | 6 | 0.68 | 0.30- | 1.30 | 39.5 | 31.5- | 53.5 | 600 | 250- | 1400 | 50.0 |
| S.M. BASS | 3 | 0.30 | 0.22- | 0.42 | 27.3 | 24.0- | 33.5 | 367 | 200- | 650 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | B | D | D | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000034 | 2.67014 | 0.974 | 50 | | 1.17 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MISSINAIBI LAKE, 1977
TOWNSHIP: LEESON DISTRICT: SUDBURY LAT/LONG: 48 23/8 340
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 15 | 0.39 | 0.18- 0.68 | 34.4 | 21.5- 49.0 | 423 | 100- 1025 | 26.7 |
| BURBOT | 15 | 0.75 | 0.45- 0.94 | 51.4 | 30.0- 61.5 | 933 | 150- 1425 | 93.3 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | A | A | A | A | A | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.020605 | 0.81573 | 0.547 | 50 | 0.50 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MISSISSAGI RIVER, 1976

TOWNSHIP: -

DISTRICT: ALCONA

LAT/LONG: 4610/8301

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 10 | 0.16 | 0.07- 0.32 | 32.5 | 25.4- 41.5 | 378 | 125- 750 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000142 | 1.99804 | 0.629 | 50 | | 0.35 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MISTINIKON LAKE, 1977
TOWNSHIP: BADEN DISTRICT : TIMISKAMING LAT/LONG: 4754/8045
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 5 | 0.46 | 0.22- | 0.68 | 30.7 | 24.2- | 35.0 | 520 | 250- | 750 | 60.0 |
| WALLEYE * | 16 | 0.46 | 0.26- | 0.59 | 35.1 | 23.1- | 47.0 | 409 | 150- | 900 | 31.3 |
| PIKE * | 10 | 0.28 | 0.12- | 0.36 | 44.9 | 35.4- | 53.5 | 565 | 300- | 950 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | A | A | B | C | - | - | - | - |
| WALLEYE | - | - | A | A | A | B | B | - | - | - |
| PIKE | - | - | - | - | A | A | A | B | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000045 | 2.68119 | 0.978 | 0 | | 0.00 |
| WALLEYE | 0.009037 | 1.10150 | 0.886 | 50 | | 0.67 |
| PIKE | 0.000116 | 2.03623 | 0.835 | 60 | | 0.49 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MOOSE RIVER, 1977

TOWNSHIP: -

DISTRICT: COCHRANE

LAT/LONG: 5107/8050

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 5 | 0.86 | 0.42- | 1.90 | 45.5 | 38.0- | 55.7 | 894 | 454- | 1816 | 80.0 |
| WHITEFISH | 4 | 0.16 | 0.14- | 0.19 | 40.1 | 37.5- | 42.5 | 764 | 560- | 908 | 0.0 |
| PIKE | 1 | 0.23 | - | - | 49.5 | - | - | 681 | - | - | - |
| L.N.SUCKER | 2 | 0.47 | 0.29- | 0.65 | 43.8 | 38.0- | 49.5 | 624 | 454- | 794 | 50.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MOOSE RIVER, 1976

TOWNSHIP: - DISTRICT: COCHRANE

LAT/LONG: 5120/8024

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| CISCO | 6 | 0.13 | 0.10- | 0.20 | 24.7 | 17.3- | 31.7 | 187 | 50- | 350 | 0.0 |
| WHITEFISH | 1 | 0.12 | - | - | 26.5 | - | - | 240 | - | - | - |
| PIKE | 1 | 0.14 | - | - | 24.5 | - | - | 100 | - | - | - |
| WALLEYE | 1 | 0.14 | - | - | 16.6 | - | - | 50 | - | - | - |
| BURBOT | 1 | 0.43 | - | - | 37.5 | - | - | 330 | - | - | - |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MUD LAKE, 1976

TOWNSHIP: I.R.9

DISTRICT: PARRY SOUND

LAT/LONG: 4601/8000

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % ≥ .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 25 | 0.95 | 0.59- 1.70 | 47.9 | 36.0- 59.0 | 662 | 300- 1100 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | B | B | C | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.001096 | 1.73986 | 0.600 | 60 | | 1.36 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: NABAKWASI LAKE, 1976
TOWNSHIP: MIRAMICHI DISTRICT: SUDBURY LAT/LONG: 4733/8127
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE * | 10 | 0.59 | 0.32- | 1.10 | 41.9 | 27.4- | 54.9 | 1083 | 225- | 2350 | 60.0 |
| W. SUCKER * | 16 | 0.14 | 0.05- | 0.28 | 40.2 | 32.4- | 46.6 | 969 | 525- | 1950 | 0.0 |
| BURBOT | 3 | 0.17 | 0.16- | 0.20 | 37.8 | 35.5- | 41.1 | 317 | 250- | 400 | 0.0 |
| Y. PERCH | 1 | 0.12 | - | - | 26.4 | - | - | 275 | - | - | - |
| WHITFISH | 1 | 0.18 | - | - | 39.5 | - | - | 1025 | - | - | - |
| PIKE | 5 | 0.67 | 0.21- | 1.00 | 48.2 | 43.9- | 51.9 | 715 | 575- | 900 | 80.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | B | C | - | - |
| W. SUCKER | - | - | - | A | A | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.003005 | 1.39975 | 0.854 | 50 | | 0.72 |
| W. SUCKER | 0.000000 | 3.70933 | 0.700 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: NEPAHWIN LAKE, 1975

TOWNSHIP: MCKIM

DISTRICT: SUDBURY

LAT/LONG: 4627/8058

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | 10 | 0.03 | 0.02- | 0.04 | 15.0 | 15.0- | 15.0 | 25 | 25- | 25 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: NIGHTHAWK LAKE, 1976
 TOWNSHIP: - DISTRICT: COCHRANE LAT/LONG: 4828/8058
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 2 | 0.96 | 0.32- | 1.60 | 63.1 | 43.8- | 82.4 | 1490 | 480- | 2500 | 50.0 |
| MOONEYE | 10 | 0.63 | 0.35- | 0.86 | 40.9 | 38.0- | 43.0 | 465 | 400- | 495 | 80.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE NIPISSING, 1977
TOWNSHIP: FRENCH R. DISTRICT : NIPISSING LAT/LONG: 4610/7950
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 18 | 0.43 | 0.24- | 1.30 | 38.1 | 26.0- | 56.0 | 539 | 100- | 1400 | 16.7 |
| Y. PERCH | * 15 | 0.40 | 0.19- | 0.79 | 26.1 | 20.0- | 31.0 | 218 | 50- | 350 | 26.7 |
| PIKE | * 19 | 0.25 | 0.15- | 0.52 | 45.7 | 38.0- | 74.0 | 603 | 300- | 2550 | 10.5 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|--|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 | |
| WALLEYE | - | - | A | A | A | B | B | C | - | - | |
| Y. PERCH | - | A | A | B | B | - | - | - | - | - | |
| PIKE | - | - | - | - | A | A | A | A | A | B | |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000170 | 2.13741 | 0.922 | 50 | | 0.73 |
| Y. PERCH | 0.000611 | 1.96864 | 0.620 | 0 | | 0.00 |
| PIKE | 0.000877 | 1.46294 | 0.648 | 60 | | 0.35 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE NIPISSING, 1977

TOWNSHIP: STURGEON R. DISTRICT : NIPISSING

LAT/LONG: 4619/7955

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|-----|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 3 | 0.32 | 0.23- | 0.45 | 31.3 | 29.0- | 33.0 | 317 | 250- | 400 | 0.0 |
| Y. PERCH | * 25 | 0.25 | 0.06- | 0.65 | 23.0 | 17.0- | 31.0 | 164 | 50- | 400 | 4.0 |
| PIKE | * 16 | 0.21 | 0.14- | 0.38 | 38.6 | 30.0- | 52.0 | 338 | 150- | 850 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | - | A | A | A | B | - | - | - | - | - |
| PIKE | - | - | - | A | A | A | A | A | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.000156 | 2.32082 | 0.785 | 0 | | 0.00 |
| PIKE | 0.000865 | 1.49438 | 0.842 | 60 | | 0.39 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE NIPISSING, 1977
TOWNSHIP: WEST BAY DISTRICT : NIPISSING LAT/LONG: 4610/8 010
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ > .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 24 | 0.28 | 0.12- | 0.72 | 46.3 | 38.0- | 56.0 | 531 | 300- | 900 | 8.3 |
| WALLEYE | * 16 | 0.42 | 0.18- | 1.30 | 35.4 | 25.0- | 54.0 | 461 | 200- | 1600 | 18.8 |
| Y. PERCH | 21 | 0.27 | 0.15- | 0.45 | 25.5 | 21.0- | 38.0 | 202 | 150- | 300 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | - | - |
| WALLEYE | - | - | A | A | A | B | B | C | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000012 | 2.59774 | 0.610 | 60 | | 0.52 |
| WALLEYE | 0.000226 | 2.06809 | 0.642 | 50 | | 0.74 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE NIPISSING, 1976
TOWNSHIP: - DISTRICT: NIPISSING LAT/LONG: 4617/8000
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GMS.) | | | % ≥ .5 PPM |
|-------------|------|---------------|-------|------|--------------|-------|------|---------------|-------|-----|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. BASS | 10 | 0.39 | 0.25- | 0.48 | 30.3 | 29.0- | 31.5 | 325 | 250- | 400 | 0.0 |
| Y. PERCH | 10 | 0.31 | 0.13- | 0.42 | 24.3 | 19.0- | 28.5 | 193 | 75- | 250 | 0.0 |
| PIKE | * 20 | 0.28 | 0.15- | 0.64 | 47.1 | 41.0- | 54.0 | 580 | 300- | 900 | 10.0 |
| WALLEYE | * 19 | 0.45 | 0.24- | 0.69 | 38.8 | 32.5- | 45.0 | 539 | 300- | 800 | 42.1 |
| S.M. BASS | 4 | 0.37 | 0.26- | 0.54 | 33.1 | 29.0- | 38.5 | 613 | 400- | 950 | 25.0 |
| B. BULLHEAD | 9 | 0.20 | 0.12- | 0.34 | 30.4 | 27.0- | 32.5 | 400 | 250- | 500 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | B | - | - |
| WALLEYE | - | - | - | A | A | B | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000014 | 2.55257 | 0.522 | 60 | | 0.49 |
| WALLEYE | 0.000127 | 2.22980 | 0.768 | 50 | | 0.78 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OLD WOMAN RIVER, 1977

TOWNSHIP: - DISTRICT: ALCONIA

LAT/LONG: 4748/8454

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|--------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| SMELT | * 20 | 0.15 | 0.07- 0.27 | 17.5 | 14.0- 23.0 | 43 | 20- 75 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| SMELT | A | A | A | - | - | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| SMELT | 0.000130 | 2.45069 | 0.841 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OLIVER LAKE, 1977
 TOWNSHIP: MCKELLAR DISTRICT: PARRY SOUND LAT/LONG: 4531/7948
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|---------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 14 | 0.31 | 0.12- 0.78 | 30.9 | 18.5- 37.5 | 414 | 50- 700 | 7.1 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | A | B | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|-----------|----------|---------|-------|---------|------------|
| S.M. BASS | 0.000113 | 2.27740 | 0.861 | 0 | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OPASATIKA LAKE, 1974

TOWNSHIP: OPAZATIKA

DISTRICT: ALGOMA

LAT/LONG: 4904/8 306

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 58 | 0.56 | 0.14- | 1.60 | 44.3 | 12.0- | 73.0 | 658 | 85- | 3100 | 44.8 |
| WALLEYE | * 70 | 0.75 | 0.22- | 1.40 | 33.5 | 20.5- | 49.0 | 377 | 114- | 1000 | 74.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | A | B | B | B | B | C | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.011470 | 1.16843 | 0.433 | 50 | | 1.11 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OPEEPEESWAY LAKE, 1977

TOWNSHIP: OSWAY

DISTRICT: SUDBURY

LAT/LONG: 4737/8215

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH(CM.) | | | WEIGHT(GM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|-------------|-------|------|-------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 15 | 1.21 | 0.90- | 1.80 | 47.2 | 32.3- | 67.0 | 326 | 40- | 2000 | 100.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PAPAKOMEKA LAKE, 1976

TOWNSHIP: ADAMS

DISTRICT: TIMISKAMING

LAT/LONG: 4816/8118

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|---|---------------|-------|------|--------------|-------------|--------------|-----------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | MEAN | RANGE | |
| PIKE | 3 | 1.49 | 0.29- | 3.70 | 64.2 | 43.0- 102.0 | 2716 | 405- 7264 | 33.3 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PETERLONG LAKE, 1976
 TOWNSHIP: MUSCROVE DISTRICT: TIMISKAMING LAT/LONG: 48 05/8125
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 2 | 0.79 | 0.78- | 0.79 | 55.2 | 52.1- | 58.2 | 1225 | 1000- | 1450 | 100.0 |
| WALLEYE | 9 | 1.31 | 0.90- | 1.70 | 52.2 | 47.0- | 62.2 | 1174 | 830- | 2300 | 100.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PHARAND LAKE, 1976
TOWNSHIP: PHARAND DISTRICT: TIMISKAMING LAT/LONG: 4807/8148
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 3 | 0.52 | 0.19- | 0.94 | 56.4 | 39.6- | 66.6 | 1368 | 392- | 2160 | 33.3 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PIVABISKA LAKE, 1977
TOWNSHIP: HANLAN DISTRICT: COCHRANE LAT/LONG: 4949/8343
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ > 0.5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.29 | 0.15- | 0.84 | 45.0 | 35.0- | 88.0 | 567 | 225- | 2650 | 6.7 |
| WALLEYE | * 21 | 0.35 | 0.22- | 0.75 | 36.2 | 21.0- | 54.5 | 489 | 50- | 1500 | 9.5 |
| Y. PERCH | 5 | 0.17 | 0.13- | 0.23 | 23.9 | 20.5- | 26.0 | 173 | 100- | 215 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | B | B |
| WALLEYE | - | A | A | A | A | A | A | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000161 | 1.95472 | 0.937 | 60 | | 0.48 |
| WALLEYE | 0.024194 | 0.74018 | 0.639 | 50 | | 0.44 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PORCUPINE LAKE, 1976

TOWNSHIP: WHITNEY

DISTRICT: COCHRANE

LAT/LONG: 4829/8111

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 18 | 0.49 | 0.16- | 1.00 | 56.1 | 37.5- | 78.0 | 1344 | 208- | 3072 | 44.4 |
| W. SUCKER | * 10 | 0.14 | 0.04- | 0.23 | 39.9 | 30.0- | 47.2 | 876 | 327- | 2660 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | B | B |
| W. SUCKER | - | - | - | A | A | A | A | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000311 | 1.81023 | 0.916 | 60 | | 0.51 |
| W. SUCKER | 0.000000 | 3.96736 | 0.917 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PRAIRIE BEE LAKE, 1977
TOWNSHIP: PETER + 37 DISTRICT: SUDBURY LAT/LONG: 4754/8354
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 15 | 0.38 | 0.27- | 0.53 | 29.7 | 25.0- | 35.0 | 270 | 175- | 450 | 6.7 |
| PIKE | 14 | 0.53 | 0.23- | 1.60 | 47.9 | 29.0- | 65.0 | 883 | 225- | 1750 | 50.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOR AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.020491 | 0.86024 | 0.539 | 50 | 0.59 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PRATT LAKE, 1977

TOWNSHIP: SEATON

DISTRICT: COCHRANE

LAT/LONG: 4857/8230

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 11 | 0.27 | 0.15- | 0.48 | 39.6 | 29.0- | 53.0 | 509 | 150- | 1200 | 0.0 |
| PIKE | * 15 | 0.26 | 0.10- | 0.76 | 54.9 | 42.5- | 76.0 | 927 | 375- | 2150 | 6.7 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | A | A | B | - | - |
| PIKE | - | - | - | - | - | A | A | A | A | B |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.000533 | 1.68213 | 0.720 | 50 | 0.38 |
| PIKE | 0.000057 | 2.07550 | 0.610 | 60 | 0.28 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PRATT LAKE, 1976

TOWNSHIP: SEATON

DISTRICT: COCHRANE

LAT/LONG: 4857/8230

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | Σ > .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 16 | 0.26 | 0.11- | 0.44 | 42.0 | 32.5- | 52.5 | 747 | 300- | 1400 | 0.0 |
| PIKE | * 21 | 0.34 | 0.11- | 0.84 | 57.6 | 29.5- | 73.0 | 1343 | 150- | 2600 | 19.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | A | A | E | - | - |
| PIKE | - | - | - | A | A | A | A | A | E | B |

A MERCURY CONCENTRATION <0.5 PPM
L MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
L MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000101 | 2.08704 | 0.736 | 50 | | 0.36 |
| PIKE | 0.000050 | 2.13984 | 0.772 | 60 | | 0.32 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RAMSEY LAKE, 1977

TOWNSHIP: ELIZABETH

DISTRICT: SUDBURY

LAT/LONG: 4713/8215

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH(CM.) | | | WEIGHT(GM.) | | | >= .5 PPM |
|-----------|------|---------------|-------|------|-------------|-------|------|-------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.49 | 0.21- | 1.10 | 50.0 | 28.5- | 67.0 | 740 | 125- | 1750 | 40.0 |
| WHITEFISH | 15 | 0.25 | 0.06- | 0.39 | 38.0 | 27.0- | 41.0 | 507 | 225- | 700 | 0.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | A | B | B | B | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.001638 | 1.44584 | 0.753 | 60 | 0.61 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RAMSEY LAKE, 1975

TOWNSHIP: MCKIM

DISTRICT: SUDBURY

LAT/LONG: 4629/8057

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|-----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | 30 | 0.02 | 0.02- | 0.02 | 13.9 | 4.0- | 16.0 | 40 | 40- | 40 | 0.0 |
| PIKE | * 8 | 0.11 | 0.04- | 0.20 | 54.0 | 44.0- | 78.0 | 1381 | 600- | 4000 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | A | A | A |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000000 | 3.29470 | 0.888 | 60 | | 0.13 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RED CEDAR LAKE, 1977

TOWNSHIP: MCCALLUM

DISTRICT : NIPISSING

LAT/LONG: 4645/7954

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| CISCO | * 10 | 0.18 | 0.14- | 0.28 | 37.0 | 32.0- | 42.0 | 500 | 300- | 600 | 0.0 |
| Y. PERCH | 3 | 0.22 | 0.15- | 0.34 | 24.0 | 20.0- | 29.0 | 167 | 50- | 300 | 0.0 |
| PIKE | * 10 | 0.49 | 0.24- | 1.20 | 54.8 | 38.0- | 65.0 | 1120 | 300- | 1750 | 30.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| CISCO | - | - | - | A | A | A | A | - | - | - |
| PIKE | - | - | - | - | A | A | A | B | B | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| CISCO | 0.000042 | 2.30412 | 0.884 | 0 | | 0.00 |
| PIKE | 0.000069 | 2.19232 | 0.764 | 60 | | 0.55 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RED CEDAR LAKE, 1976
TOWNSHIP: MCCALLUM DISTRICT: NIPISSING LAT/LONG: 4645/7954
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|-------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 13 | 0.88 | 0.25- | 1.70 | 42.5 | 32.0- | 72.0 | 896 | 350- | 2500 | 76.9 |
| PIKE | 2 | 0.70 | 0.60- | 0.80 | 79.0 | 48.0- | 110.0 | 1525 | 900- | 2150 | 100.0 |
| Y. PERCH | 1 | 0.44 | - | - | 25.0 | - | - | 200 | - | - | - |
| BURBOT | 4 | 0.64 | 0.53- | 0.74 | 47.8 | 42.0- | 54.0 | 863 | 650- | 1100 | 100.0 |
| CISCO | 9 | 0.33 | 0.06- | 0.66 | 33.0 | 18.0- | 41.0 | 567 | 50- | 1100 | 33.3 |
| W. SUCKER | 4 | 0.15 | 0.08- | 0.25 | 44.5 | 39.0- | 50.0 | 1350 | 1000- | 1700 | 0.0 |
| WHITEFISH | 4 | 0.17 | 0.08- | 0.25 | 42.3 | 41.0- | 44.0 | 1163 | 950- | 1300 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | B | B | C | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000858 | 1.82668 | 0.804 | 50 | | 1.09 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RED ROCK LAKE, 1976

TOWNSHIP: WHITMAN

DISTRICT: ALGOMA

LAT/LONG: 4644/8353

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 2 | 1.21 | 0.71- | 1.70 | 46.5 | 36.7- | 56.3 | 1050 | 500- | 1600 | 100.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: REMI LAKE, 1977

TOWNSHIP: GURNEY

DISTRICT: COCHRANE

LAT/LONG: 4926/8210

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % ≥ .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 12 | 0.31 | 0.12- | 1.00 | 51.0 | 32.0- | 80.0 | 765 | 150- | 2000 | 16.7 |
| WALLEYE | 14 | 0.62 | 0.32- | 0.87 | 44.7 | 36.5- | 55.0 | 824 | 400- | 1600 | 78.6 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | A | A | A | B | B |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000014 | 2.50119 | 0.781 | 60 | 0.39 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RESTOULE LAKE, 1977

TOWNSHIP: PATTERSON

DISTRICT : PARRY SOUND

LAT/LONG: 4603/7946

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 1 | 2.00 | - | - | 70.0 | - | - | 3500 | - | - | - |
| WALLEYE | 7 | 1.30 | 0.89- | 1.60 | 38.1 | 35.0- | 42.0 | 479 | 400- | 650 | 100.0 |
| WHITEFISH | 10 | 0.57 | 0.42- | 0.75 | 47.0 | 44.0- | 55.0 | 1070 | 800- | 1700 | 80.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RESTOULE LAKE, 1976
TOWNSHIP: PATTERSON DISTRICT: PARRY SOUND LAT/LONG: 4603/7946
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | | % > .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-------|------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | | |
| WALLEYE | * 26 | 1.55 | 0.85- 2.30 | 36.3 | 29.0- 50.0 | 729 | 500- | 1600 | 100.0 |
| R. BASS | 1 | 0.79 | - | 19.5 | - | 140 | - | - | - |
| WHITFISH | * 6 | 0.53 | 0.44- 0.62 | 40.0 | 37.0- 45.0 | 975 | 800- | 1250 | 50.0 |
| L. TROUT | 1 | 2.10 | - | 5.0 | - | 3400 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | C | C | D | D | - | - | - |
| WHITEFISH | - | - | - | - | A | B | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.025456 | 1.13938 | 0.615 | 50 | | 2.20 |
| WHITEFISH | 0.001096 | 1.67227 | 0.817 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ROBIN LAKE, 1976

TOWNSHIP: I.R.9

DISTRICT: PARRY SOUND

LAT/LONG: 46 3/7958

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L.M. BASS * | 21 | 0.91 | 0.28- 1.50 | 33.6 | 25.0- 44.0 | 743 | 250- 1600 | 85.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L.M. BASS | - | - | A | B | B | D | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L.M. BASS | 0.000320 | 2.24879 | 0.889 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ROCK ISLAND LAKE, 1977
TOWNSHIP: NOTMAN DISTRICT : NIPISSING LAT/LONG: 46 35/7932
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WHITEFISH * | 15 | 0.28 | 0.16- 0.49 | 34.7 | 28.0- 41.0 | 323 | 150- 500 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | A | A | A | B | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000026 | 2.60642 | 0.804 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ROUND LAKE, 1976

TOWNSHIP: OTTO

DISTRICT: TIMISKAMING

LAT/LONG: 48 01/8 002

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 10 | 0.69 | 0.50- 1.10 | 51.6 | 41.3- 64.0 | 1440 | 800- 2500 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | B | B | C | C | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000771 | 1.71985 | 0.881 | 50 | | 0.64 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SAGANASH LAKE, 1977
 TOWNSHIP: FENTON DISTRICT: COCHRANE LAT/LONG: 4904/8235
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|---------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 15 | 0.31 | 0.14- 0.76 | 33.6 | 24.0- 45.0 | 312 | 50- 650 | 20.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.000210 | 2.04729 | 0.859 | 50 | 0.63 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE STE THERESE, 1977

TOWNSHIP: CASGRAIN

DISTRICT: COCHRANE

LAT/LONG: 4947/8339

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 15 | 0.42 | 0.25- | 0.74 | 40.0 | 30.0- | 52.0 | 583 | 200- | 1150 | 26.7 |
| PIKE | 15 | 0.44 | 0.28- | 0.84 | 52.4 | 38.0- | 67.0 | 863 | 350- | 1600 | 26.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | A | B | B | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.005946 | 1.14108 | 0.559 | 50 | | 0.52 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SANDY #1 LAKE, 1976
TOWNSHIP: I.R.9 DISTRICT: PARRY SOUND LAT/LONG: 4607/8002
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 15 | 0.64 | 0.37- 1.00 | 50.5 | 43.0- 58.0 | 813 | 500- 1250 | 80.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | C | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000048 | 2.41567 | 0.749 | 60 | | 0.95 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SANDY #2 LAKE, 1976
TOWNSHIP: I.R.#9 DISTRICT: PARRY SOUND LAT/LONG: 4607/8002
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ > .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | 3 | 0.28 | 0.21- | 0.32 | 25.7 | 21.0- | 28.0 | 225 | 75- | 300 | 0.0 |
| PIKE | * 15 | 0.57 | 0.30- | 0.86 | 52.1 | 39.0- | 60.0 | 827 | 350- | 1250 | 53.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | B | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000455 | 1.79587 | 0.725 | 60 | | 0.71 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SASAGINAGA LAKE, 1976
TOWNSHIP: COLEMAN DISTRICT: TIMISKAMING LAT/LONG: 4724/7942
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 3 | 0.49 | 0.44- | 0.58 | 43.2 | 37.0- | 52.0 | 500 | 310- | 850 | 33.3 |
| L. TROUT | 3 | 0.34 | 0.23- | 0.48 | 56.3 | 50.0- | 60.0 | 1650 | 1150- | 2100 | 0.0 |
| S.M. BASS | 1 | 0.69 | - | - | 38.0 | - | - | 800 | - | - | - |
| CISCO * | 6 | 0.18 | 0.14- | 0.22 | 25.7 | 20.0- | 37.0 | 272 | 120- | 650 | 0.0 |
| W. SUCKER | 1 | 0.45 | - | - | 44.0 | - | - | 900 | - | - | - |
| R. BASS | 1 | 0.52 | - | - | 15.0 | - | - | 65 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| CISCO | - | A | A | A | A | A | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| CISCO | 0.018711 | 0.69323 | 0.932 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SCHEWABIK LAKE, 1977

TOWNSHIP: SADLER

DISTRICT: SUDBURY

LAT/LONG: 4813/8310

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH(CM.) | | | WEIGHT(GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|-------------|-------|------|-------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.54 | 0.23- | 1.10 | 49.9 | 42.5- | 63.0 | 660 | 300- | 1425 | 46.7 |
| WALLEYE | * 15 | 0.59 | 0.27- | 1.70 | 36.8 | 24.5- | 56.5 | 487 | 75- | 1525 | 33.3 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | C | D | - |
| WALLEYE | - | - | A | A | A | B | C | D | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOR AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000001 | 3.41332 | 0.910 | 60 | 0.95 |
| WALLEYE | 0.000147 | 2.26281 | 0.955 | 50 | 1.03 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SECOND LAKE, 1976

TOWNSHIP: - DISTRICT: SUDBURY

LAT/LONG: 4711/8152

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B. TROUT | 10 | 0.05 | 0.04- | 0.06 | 17.6 | 2.5- | 20.9 | 72 | 39- | 131 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SESEKINIKA LAKE, 1976

TOWNSHIP: MAISONVILLE DISTRICT: TIMISKAMING

LAT/LONG: 4811/8014

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | Σ ≥ .5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 10 | 0.28 | 0.16- | 0.46 | 37.6 | 31.0- | 45.0 | 470 | 250- | 750 | 0.0 |
| PIKE | 9 | 0.23 | 0.08- | 0.42 | 47.3 | 38.0- | 58.0 | 994 | 180- | 2000 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SHACK LAKE, 1977
 TOWNSHIP: SEATON DISTRICT: COCHRANE LAT/LONG: 4857/8231
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.30 | 0.12- | 1.10 | 49.1 | 37.0- | 91.0 | 779 | 300- | 4210 | 6.7 |
| WALLEYE | * 15 | 0.37 | 0.20- | 0.58 | 40.6 | 34.0- | 53.5 | 542 | 250- | 1250 | 20.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | B | B |
| WALLEYE | - | - | - | - | A | A | B | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000086 | 2.06852 | 0.928 | 60 | 0.41 |
| WALLEYE | 0.000804 | 1.64483 | 0.625 | 50 | 0.50 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SHACK LAKE, 1976

TOWNSHIP: SEATON

DISTRICT: COCHFANE

LAT/LONG: 4857/8231

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | >= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 13 | 0.64 | 0.31- | 1.00 | 43.8 | 34.0- | 56.0 | 865 | 350- | 1850 | 69.2 |
| PIKE | * 17 | 0.38 | 0.26- | 0.71 | 56.9 | 45.0- | 80.0 | 1282 | 600- | 3500 | 11.8 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | A | B | C | D | - | - |
| PIKE | - | - | - | - | - | A | A | A | B | B |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000113 | 2.27427 | 0.755 | 50 | | 0.83 |
| PIKE | 0.004085 | 1.11066 | 0.591 | 60 | | 0.39 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SHINING TREE LAKE, 1977
TOWNSHIP: LEONARD DISTRICT : TIMISKAMING LAT/LONG: 4733/8104
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % ≥ 0.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 20 | 0.33 | 0.16- 0.66 | 40.5 | 29.5- 52.5 | 696 | 250- 1360 | 15.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | A | B | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000064 | 2.28875 | 0.794 | 50 | | 0.50 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SKELETON LAKE, 1976

TOWNSHIP: MULLIGAN

DISTRICT: TIMISKAMING

LAT/LONG: 4752/7939

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 10 | 0.79 | 0.28- | 1.70 | 39.9 | 28.6- | 62.5 | 650 | 150- | 2300 | 80.0 |
| PIKE | 3 | 1.04 | 0.85- | 1.40 | 50.2 | 45.7- | 53.6 | 600 | 300- | 800 | 100.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SMOKE LAKE, 1977

TOWNSHIP: PECK

DISTRICT: NIPISSING

LAT/LONG: 4531/7841

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 10 | 0.22 | 0.05- 0.54 | 39.8 | 23.5- 55.5 | 518 | 75- 1600 | 10.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | A | A | A | A | A | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + A_1 L^A$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000030 | 2.38863 | 0.927 | 60 | | 0.53 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SMOKE LAKE, 1976

TOWNSHIP: PECK

DISTRICT: NIPISSING

LAT/LONG: 4531/7841

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| BURBOT * | 10 | 0.78 | 0.39- | 1.00 | 56.2 | 41.0- | 69.0 | 1345 | 400- | 2250 | 90.0 |
| S.M. BASS * | 11 | 0.31 | 0.14- | 0.44 | 25.6 | 21.0- | 31.0 | 293 | 150- | 427 | 0.0 |
| WHITEFISH | 10 | 0.13 | 0.04- | 0.41 | 31.3 | 28.0- | 39.3 | 245 | 150- | 550 | 0.0 |
| L. TROUT * | 10 | 0.43 | 0.15- | 0.84 | 48.7 | 32.5- | 70.0 | 1296 | 200- | 3808 | 40.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| BURBOT | - | - | - | - | - | B | B | E | C | - |
| S.M. BASS | - | A | A | A | B | - | - | - | - | - |
| L. TROUT | - | - | - | A | A | A | B | B | C | C |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + A_1 L$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| BURBOT | 0.004760 | 1.26129 | 0.733 | 0 | | 0.00 |
| S.M. BASS | 0.000579 | 1.92620 | 0.717 | 0 | | 0.00 |
| L. TROUT | 0.000042 | 2.35105 | 0.986 | 60 | | 0.64 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SNIGISI LAKE, 1976
TOWNSHIP: I.R.,9 DISTRICT: PARRY SOUND LAT/LONG: 4603/7959
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | >= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L.M. BASS | 9 | 0.44 | 0.32- | 0.64 | 35.9 | 33.0- | 40.0 | 783 | 600- | 1050 | 33.3 |
| PIKE | * 24 | 0.54 | 0.24- | 1.50 | 52.3 | 35.0- | 64.0 | 775 | 250- | 1450 | 29.2 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | B | B | C | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000059 | 2.28405 | 0.807 | 60 | | 0.68 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SUCKER LAKE, 1977
 TOWNSHIP: LASALLE DISTRICT : NIPISSING LAT/LONG: 4643/7925
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 14 | 0.39 | 0.15- 0.67 | 48.4 | 39.0- 59.0 | 618 | 300- 1150 | 35.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | B | C | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^A A_1$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000000 | 4.01465 | 0.865 | 60 | | 0.83 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TALON LAKE, 1975

TOWNSHIP: - DISTRICT: NIPISSING

LAT/LONG: 4618/7905

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 37 | 1.01 | 0.37- | 2.10 | 45.5 | 34.0- | 64.0 | 1207 | 400- | 2900 | 94.6 |
| WHITFISH | 9 | 0.37 | 0.24- | 0.51 | 45.8 | 40.0- | 52.0 | 1367 | 750- | 1800 | 22.2 |
| L. TROUT | 13 | 0.41 | 0.20- | 0.67 | 48.1 | 32.2- | 62.0 | 1713 | 600- | 3000 | 23.1 |
| BURBOT | * 20 | 0.96 | 0.40- | 1.80 | 54.6 | 43.0- | 67.0 | 1223 | 600- | 2050 | 95.0 |
| CISCO | 13 | 0.42 | 0.17- | 0.69 | 30.0 | 26.0- | 34.0 | 333 | 200- | 425 | 30.8 |
| S.M. BASS | * 19 | 0.50 | 0.35- | 0.69 | 30.7 | 28.0- | 37.0 | 557 | 350- | 1100 | 52.6 |
| PIKE | 1 | 0.51 | - | - | 49.0 | - | - | 800 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | A | B | D | D | D | - |
| BURBOT | - | - | - | - | - | B | B | C | D | - |
| S.M. BASS | - | - | A | A | B | B | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000040 | 2.63420 | 0.742 | 50 | | 1.20 |
| BURBOT | 0.000217 | 2.08964 | 0.736 | 0 | | 0.00 |
| S.M. BASS | 0.008519 | 1.18489 | 0.546 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TANK LAKE, 1976

TOWNSHIP: PROUDFOOT

DISTRICT: PARRY SOUND

LAT/LONG: 4537/7913

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B. TROUT | 24 | 0.04 | 0.02- | 0.05 | 18.1 | 13.0- | 22.1 | 61 | 13- | 118 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE TEMAGAMI, 1976
TOWNSHIP: - DISTRICT: NIPISSING LAT/LONG: 4700/8005
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM | |
|-----------|---|---------------|-------|-------|--------------|-------|-------|--------------|-------|------|---------------|------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | | |
| WALLEYE | * | 7 | 0.26 | 0.04- | 0.59 | 43.8 | 24.0- | 56.3 | 959 | 60- | 1850 | 14.3 |
| WHITEFISH | | 11 | 0.04 | 0.01- | 0.08 | 41.3 | 27.5- | 53.0 | 590 | 90- | 1500 | 0.0 |
| CISCO | | 9 | 0.04 | 0.01- | 0.07 | 23.2 | 15.5- | 30.3 | 73 | 20- | 125 | 0.0 |
| L. TROUT | | 5 | 0.06 | 0.05- | 0.08 | 44.2 | 36.0- | 54.0 | 605 | 200- | 1200 | 0.0 |
| BURBOT | | 4 | 0.15 | 0.10- | 0.24 | 40.0 | 32.5- | 45.5 | 325 | 100- | 550 | 0.0 |
| PIKE | | 4 | 0.07 | 0.04- | 0.14 | 43.1 | 32.0- | 70.0 | 626 | 15- | 2300 | 0.0 |
| S.M. BASS | | 3 | 0.07 | 0.05- | 0.12 | 31.3 | 28.0- | 35.0 | 317 | 150- | 450 | 0.0 |
| R. BASS | | 1 | 0.06 | - | - | 13.3 | - | - | 15 | - | - | - |
| Y. PERCH | | 1 | 0.06 | - | - | 16.5 | - | - | 10 | - | - | - |
| W. SUCKER | | 2 | 0.05 | 0.04- | 0.05 | 41.7 | 38.0- | 45.3 | 775 | 550- | 1000 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | A | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000002 | 2.97627 | 0.936 | 50 | | 0.28 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TIMBER LAKE, 1977

TOWNSHIP: BUTLER

DISTRICT : NIPISSING

LAT/LONG: 46 30/7903

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| MENOMINEE | 5 | 0.44 | 0.27- | 0.67 | 33.4 | 33.0- | 35.0 | 320 | 300- | 350 | 20.0 |
| L. TROUT * | 10 | 0.35 | 0.24- | 0.54 | 44.8 | 31.0- | 61.0 | 940 | 250- | 2200 | 10.0 |
| S. TROUT | 1 | 0.42 | - | - | 44.0 | - | - | 1100 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | A | A | B | B | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.002156 | 1.33309 | 0.914 | 60 | | 0.51 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE TIMISKAMINC, 1976
TOWNSHIP: - DISTRICT: TIMISKAMING LAT/LONG: 4652/7915
DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ> .5 PPM | |
|-------------|---|---------------|-------|-------|--------------|-------|-------|--------------|-------|------|-----------|------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | | |
| PIKE | * | 6 | 0.65 | 0.47- | 1.10 | 54.8 | 41.5- | 68.0 | 1105 | 450- | 1900 | 50.0 |
| WALLEYE | * | 7 | 0.80 | 0.41- | 1.50 | 34.4 | 23.0- | 54.0 | 482 | 100- | 1500 | 71.4 |
| CISCO | | 5 | 0.23 | 0.14- | 0.30 | 30.1 | 24.5- | 39.0 | 320 | 150- | 600 | 0.0 |
| SAUGER | | 5 | 0.87 | 0.48- | 1.30 | 26.8 | 21.0- | 32.5 | 204 | 160- | 325 | 80.0 |
| WHITFISH | | 1 | 0.17 | - | - | 48.0 | - | - | 1200 | - | - | - |
| R.H. SUCKER | | 2 | 0.15 | 0.12- | 0.17 | 31.5 | 31.0- | 32.0 | 400 | 400- | 400 | 0.0 |
| S.M. BASS | | 2 | 0.60 | 0.38- | 0.81 | 34.5 | 28.0- | 41.0 | 700 | 400- | 1000 | 50.0 |
| Y. PERCH | | 1 | 0.29 | - | - | 21.0 | - | - | 175 | - | - | - |
| MOONEYE | | 3 | 0.26 | 0.22- | 0.28 | 28.8 | 22.5- | 33.0 | 308 | 150- | 400 | 0.0 |
| W. SUCKER | | 1 | 0.39 | - | - | 44.0 | - | - | 1250 | - | - | - |
| F.W. DRUM | | 1 | 1.60 | - | - | 53.0 | - | - | 2100 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | B | C | - |
| WALLEYE | - | - | A | E | B | C | D | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.001272 | 1.55044 | 0.823 | 60 | | 0.73 |
| WALLEYE | 0.004501 | 1.45610 | 0.980 | 50 | | 1.34 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TOMIKO LAKE, 1977

TOWNSHIP: GRANT

DISTRICT : NIPISSING

LAT/LONG: 46 32/7949

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-------------|---|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 5 | 0.82 | 0.61- 1.20 | 31.6 | 26.0- 38.0 | 570 | 200- 1400 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | B | B | B | C | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.002459 | 1.67671 | 0.935 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TONIKO LAKE, 1976
TOWNSHIP: GRANT DISTRICT: NIPISSING LAT/LONG: 46 32/7949
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE * | 33 | 1.15 | 0.71- | 1.80 | 42.1 | 35.0- | 54.0 | 602 | 300- | 1300 | 100.0 |
| S.M. BASS * | 6 | 1.03 | 0.72- | 1.50 | 36.0 | 33.5- | 38.0 | 642 | 500- | 800 | 100.0 |
| W. SUCKER * | 6 | 0.27 | 0.07- | 0.40 | 43.6 | 35.0- | 49.0 | 925 | 450- | 1250 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | B | C | D | D | - | - |
| S.M. BASS | - | - | - | A | E | D | - | - | - | - |
| W. SUCKER | - | - | - | - | A | A | E | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.018324 | 1.10017 | 0.430 | 50 | | 1.36 |
| S.M. BASS | 0.000000 | 5.03040 | 0.875 | 0 | | 0.00 |
| W. SUCKER | 0.000000 | 4.60938 | 0.905 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TONY LAKE, 1977

TOWNSHIP: DE GAULLE

DISTRICT: SUDBURY

LAT/LONG: 47 37/8 30 3

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.34 | 0.16- | 0.71 | 52.1 | 32.5- | 68.3 | 1050 | 225- | 2250 | 20.0 |
| W. SUCKER | * 8 | 0.08 | 0.02- | 0.20 | 41.6 | 35.5- | 46.5 | 988 | 675- | 1300 | 0.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | A | A | A | B | - |
| W. SUCKER | - | - | - | - | A | A | A | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|-----------|----------|---------|-------|---------|------------|
| PIKE | 0.000227 | 1.82742 | 0.892 | 60 | 0.40 |
| W. SUCKER | 0.000000 | 5.37608 | 0.749 | 0 | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TROUT LAKE, 1976

TOWNSHIP: PAXTON

DISTRICT: PARRY SOUND

LAT/LONG: 4548/7908

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | % >= .5 PPM |
|----------|----|---------------|------------|--------------|------------|--------------|---------|----------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| B. TROUT | 11 | 0.29 | 0.18- 0.48 | 23.9 | 14.9- 29.0 | 151 | 50- 250 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: UPPER FRENCH RIVER, 1976

TOWNSHIP: -

DISTRICT: PARRY SOUND

LAT/LONG: 4556/8054

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 4 | 0.30 | 0.22- | 0.45 | 56.3 | 53.0- | 63.5 | 1225 | 950- | 1700 | 0.0 |
| S.M. BASS * | 18 | 0.24 | 0.12- | 0.47 | 27.2 | 19.0- | 36.9 | 383 | 150- | 900 | 0.0 |
| WALLEYE * | 17 | 0.27 | 0.15- | 0.39 | 31.2 | 25.9- | 42.0 | 326 | 150- | 850 | 0.0 |
| CISCO | 1 | 0.14 | - | - | 34.0 | - | - | 450 | - | - | - |
| W. SUCKER * | 16 | 0.14 | 0.06- | 0.43 | 38.1 | 34.3- | 44.0 | 706 | 500- | 1150 | 0.0 |
| R.H. SUCKER | 1 | 0.13 | - | - | 53.5 | - | - | 1600 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | A | B | - | - | - | - |
| WALLEYE | - | - | A | A | A | A | B | - | - | - |
| W. SUCKER | - | - | - | - | A | A | B | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000484 | 1.86465 | 0.878 | 0 | | 0.00 |
| WALLEYE | 0.002327 | 1.37197 | 0.701 | 50 | | 0.50 |
| W. SUCKER | 0.000000 | 4.09806 | 0.535 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: VERMILION LAKE, 1977

TOWNSHIP: FAIRBANK

DISTRICT: SUDBURY

LAT/LONG: 46 30/8126

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE * | 30 | 0.47 | 0.26- | 0.73 | 43.1 | 30.0- | 54.5 | 653 | 238- | 1330 | 40.0 |
| S.M. BASS * | 8 | 0.32 | 0.19- | 0.54 | 28.9 | 18.9- | 38.9 | 344 | 90- | 658 | 12.5 |
| Y. PERCH * | 35 | 0.11 | 0.05- | 0.22 | 18.5 | 11.4- | 32.0 | 97 | 17- | 396 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|--|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 | |
| WALLEYE | - | - | - | A | A | A | B | E | - | - | |
| S.M. BASS | - | A | A | A | A | B | - | - | - | - | |
| Y. PERCH | A | A | A | A | A | - | - | - | - | - | |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.003441 | 1.30090 | 0.719 | 50 | | 0.56 |
| S.M. BASS | 0.004527 | 1.25643 | 0.874 | 0 | | 0.00 |
| Y. PERCH | 0.001373 | 1.47972 | 0.893 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: VICTORIA LAKE, 1976
TOWNSHIP: MORRISETTE DISTRICT: TIMISKAMING LAT/LONG: 4811/7953
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS * | 15 | 0.28 | 0.20- | 0.48 | 29.8 | 24.1- | 43.5 | 467 | 200- | 1500 | 0.0 |
| PIKE * | 7 | 0.45 | 0.28- | 0.80 | 42.5 | 36.8- | 50.8 | 421 | 200- | 700 | 28.6 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | A | A | A | A | B | - | - | - |
| PIKE | - | - | - | - | A | B | B | C | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.008754 | 1.01277 | 0.724 | 0 | | 0.00 |
| PIKE | 0.000013 | 2.77819 | 0.940 | 60 | | 1.14 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WAIWASHKESH LAKE, 1977
TOWNSHIP: MCKENZIE DISTRICT: PARRY SOUND LAT/LONG: 45 3/8 002
DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | >= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 24 | 0.65 | 0.22- 1.19 | 34.5 | 23.5- 45.1 | 666 | 227- 1476 | 87.5 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | A | D | E | C | C | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
L MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.001414 | 1.72383 | 0.872 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WANGOON LAKE, 1977

TOWNSHIP: STRATHEARN + 3 DISTRICT: SUDBURY

LAT/LONG: 4750/8334

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH(CM.) | | | WEIGHT(GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|-------------|-------|------|-------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.36 | 0.13- | 0.70 | 49.2 | 31.0- | 70.0 | 795 | 200- | 2500 | 13.3 |
| WHITEFISH | 15 | 0.10 | 0.03- | 0.18 | 34.7 | 28.5- | 38.5 | 398 | 250- | 600 | 0.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | A | A | B | B | B |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000642 | 1.61163 | 0.745 | 60 | 0.47 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WATABEAG LAKE, 1976
TOWNSHIP: NORDICA DISTRICT: TIMISKAMING LAT/LONG: 4814/8033
DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|-----|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 3 | 0.35 | 0.26- | 0.46 | 34.0 | 31.0- | 36.0 | 700 | 400- | 900 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WATSON LAKE, 1976

TOWNSHIP: TRIQUET

DISTRICT: SUDBURY

LAT/LONG: 4748/8350

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B. TROUT | 12 | 0.04 | 0.03- | 0.05 | 17.1 | 15.2- | 18.1 | 47 | 36- | 58 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WAWAGOSHE LAKE, 1977
TOWNSHIP: OSSIAN DISTRICT : TIMISKAMING LAT/LONG: 4812/7936
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 14 | 0.39 | 0.12- | 1.60 | 60.4 | 44.0- | 98.0 | 1396 | 550- | 5600 | 21.4 |
| WALLEYE | * 11 | 0.31 | 0.16- | 0.45 | 43.6 | 33.5- | 53.5 | 923 | 400- | 1500 | 0.0 |
| S.M. BASS | * 7 | 0.41 | 0.21- | 0.57 | 36.1 | 32.0- | 41.0 | 700 | 250- | 1100 | 14.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | A | B | B |
| WALLEYE | - | - | - | A | A | A | A | B | - | - |
| S.M. BASS | - | - | - | A | A | B | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|----------|-------|----------|----|---------|
| PIKE | 0.000004 | 2.776 38 | 0.849 | 60 | | 0.31 |
| WALLEYE | 0.000255 | 1.876 26 | 0.799 | 50 | | 0.39 |
| S.M. BASS | 0.000002 | 3.380 98 | 0.773 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WENDIGO LAKE, 1976

TOWNSHIP: BAYLY

DISTRICT: TIMISKAMING

LAT/LONG: 4752/7943

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 10 | 0.40 | 0.21- 1.10 | 30.2 | 25.4- 47.0 | 260 | 100- 900 | 30.0 |
| PIKE | 8 | 0.37 | 0.27- 0.54 | 43.8 | 36.8- 59.7 | 550 | 300- 1300 | 25.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | B | B | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000066 | 2.50935 | 0.785 | 50 | | 1.21 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WESHAYGO LAKE, 1977
TOWNSHIP: 10 E DISTRICT: SUDBURY LAT/LONG: 4726/8314
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.43 | 0.23- | 0.71 | 45.6 | 34.6- | 63.6 | 752 | 180- | 3000 | 26.7 |
| W. SUCKER | * 14 | 0.23 | 0.03- | 0.44 | 40.7 | 18.5- | 49.2 | 839 | 90- | 1530 | 0.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | B | B | B | - |
| W. SUCKER | - | A | A | A | A | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|-----------|----------|---------|-------|---------|------------|
| PIKE | 0.003000 | 1.29508 | 0.787 | 60 | 0.60 |
| W. SUCKER | 0.000191 | 1.87370 | 0.678 | 0 | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WOLVERINE LAKE, 1977

TOWNSHIP: HANLAN

DISTRICT: COCHRANE

LAT/LONG: 4950/8346

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.31 | 0.15- | 0.47 | 45.5 | 37.0- | 51.5 | 512 | 300- | 700 | 0.0 |
| WALLEYE | * 15 | 0.36 | 0.25- | 0.55 | 38.0 | 25.0- | 50.0 | 540 | 100- | 1200 | 20.0 |
| Y. PERCH | * 8 | 0.15 | 0.09- | 0.23 | 25.0 | 23.0- | 28.5 | 163 | 100- | 250 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | B | B | - | - |
| WALLEYE | - | - | A | A | A | A | B | - | - | - |
| Y. PERCH | - | - | A | A | A | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000007 | 2.80279 | 0.852 | 60 | | 0.65 |
| WALLEYE | 0.009333 | 1.00162 | 0.726 | 50 | | 0.47 |
| Y. PERCH | 0.000001 | 3.58124 | 0.734 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WOODCOCK LAKE, 1975
TOWNSHIP: I.R.9 DISTRICT: PARRY SOUND LAT/LONG: 4602/8 004
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ>=.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 35 | 0.63 | 0.35- | 1.30 | 50.3 | 42.0- | 71.0 | 1016 | 567- | 3064 | 80.0 |
| WALLEYE | * 35 | 0.76 | 0.50- | 1.10 | 39.0 | 31.0- | 52.0 | 811 | 454- | 1702 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | B | B | B | C | D |
| WALLEYE | - | - | - | B | B | B | C | C | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000702 | 1.73080 | 0.817 | 60 | | 0.84 |
| WALLEYE | 0.014401 | 1.07931 | 0.692 | 50 | | 0.98 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WOODCOCK LAKE, 1976
TOWNSHIP: I.R.9 DISTRICT: PARRY SOUND LAT/LONG: 4602/8004
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 17 | 0.62 | 0.31- | 1.20 | 45.3 | 18.0- | 58.0 | 597 | 300- | 1100 | 76.5 |
| L.M. BASS | 8 | 0.67 | 0.33- | 0.99 | 35.6 | 30.0- | 38.0 | 713 | 400- | 950 | 75.0 |
| WALLEYE * | 37 | 0.89 | 0.52- | 1.40 | 40.4 | 32.0- | 55.0 | 622 | 250- | 1600 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | B | B | C | C | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.003705 | 1.47453 | 0.613 | 50 | | 1.19 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ZADI LAKE, 1977
 TOWNSHIP: NEELY DISTRICT: COCHRANE LAT/LONG: 4941/8245
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 15 | 0.67 | 0.18- | 1.50 | 41.9 | 23.5- | 67.0 | 754 | 100- | 2525 | 66.7 |
| PIKE | * 15 | 0.49 | 0.24- | 1.10 | 50.8 | 41.0- | 64.0 | 724 | 500- | 1185 | 46.7 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | C | D | D | - |
| PIKE | - | - | - | - | - | A | B | B | B | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.000272 | 2.06333 | 0.923 | 50 | 0.87 |
| PIKE | 0.000339 | 1.82916 | 0.512 | 60 | 0.61 |

MERCURY DATA SUMMARIES

NORTHWESTERN REGION



MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: APPS LAKE, 1977

TOWNSHIP: - DISTRICT : KENORA

LAT/LONG: 5226/9415

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ ≥ .5 PPM |
|----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 6 | 0.75 | 0.38- | 1.70 | 47.5 | 30.5- | 57.5 | 865 | 150- | 1913 | 66.7 |
| PIKE | 2 | 0.48 | 0.37- | 0.58 | 60.3 | 49.5- | 71.0 | 1238 | 675- | 1800 | 50.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: AVERY LAKE, 1977

TOWNSHIP: AVERY

DISTRICT: KENORA

LAT/LONG: 4940/9322

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 15 | 0.14 | 0.10- 0.26 | 37.5 | 32.0- 52.5 | 346 | 210- 900 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | A | A | A | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000759 | 1.42520 | 0.584 | 60 | | 0.26 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BADESDAWA LAKE, 1977

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5145/8945

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 23 | 0.65 | 0.32- | 1.30 | 44.7 | 37.0- | 56.0 | 861 | 498- | 1631 | 73.9 |
| PIKE * | 17 | 0.51 | 0.12- | 0.85 | 57.6 | 34.0- | 76.5 | 1236 | 87- | 3126 | 58.8 |
| WHITEFISH * | 31 | 0.13 | 0.06- | 0.27 | 37.7 | 27.5- | 50.5 | 824 | 272- | 1767 | 0.0 |
| L.N.SUCKER* | 28 | 0.24 | 0.05- | 0.50 | 44.3 | 32.5- | 55.5 | 1109 | 407- | 2356 | 3.6 |
| R.H.SUCKER* | 21 | 0.30 | 0.14- | 0.43 | 44.6 | 41.5- | 53.5 | 1055 | 815- | 2129 | 0.0 |
| Y. PERCH | 4 | 0.08 | 0.07- | 0.10 | 19.1 | 18.0- | 20.0 | 91 | 91- | 91 | 0.0 |
| CISCO | 9 | 0.13 | 0.08- | 0.21 | 34.9 | 31.5- | 39.5 | 599 | 407- | 770 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | B | C |
| WHITEFISH | - | - | A | A | A | A | A | - | - | - |
| L.N.SUCKER | - | - | - | A | A | A | A | B | - | - |
| R.H.SUCKER | - | - | - | - | - | A | B | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + A_1 L$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|------------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000152 | 1.99181 | 0.813 | 60 | | 0.53 |
| WHITEFISH | 0.000261 | 1.68785 | 0.646 | 0 | | 0.00 |
| L.N.SUCKER | 0.000000 | 3.66022 | 0.799 | 0 | | 0.00 |
| R.H.SUCKER | 0.000023 | 2.48882 | 0.442 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BADESDAWA LAKE, 1976

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5145/8945

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER | 2 | 0.16 | 0.12- | 0.19 | 44.0 | 42.5- | 45.5 | 952 | 896- | 1008 | 0.0 |
| PIKE | 10 | 0.53 | 0.31- | 0.98 | 47.5 | 27.5- | 55.0 | 605 | 280- | 896 | 40.0 |
| R.H.SUCKER | 4 | 0.23 | 0.10- | 0.36 | 43.0 | 41.0- | 45.0 | 1008 | 896- | 1176 | 0.0 |
| L.N.SUCKER | 3 | 0.18 | 0.14- | 0.21 | 45.2 | 41.0- | 48.0 | 1101 | 728- | 1344 | 0.0 |
| WHITEFISH | 3 | 0.15 | 0.08- | 0.20 | 42.0 | 38.0- | 49.0 | 831 | 476- | 1344 | 0.0 |
| WALLEYE | 7 | 0.55 | 0.39- | 0.72 | 45.1 | 39.0- | 55.0 | 832 | 448- | 1456 | 42.9 |
| CISCO | 4 | 0.10 | 0.07- | 0.11 | 34.4 | 29.5- | 44.5 | 532 | 336- | 896 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BADESDAWA LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5145/8945

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 8 | 0.59 | 0.40- | 1.10 | 51.1 | 46.0- | 55.0 | 553 | 340- | 794 | 62.5 |
| WALLEYE | 15 | 0.52 | 0.33- | 1.10 | 37.9 | 31.0- | 44.0 | 369 | 113- | 737 | 33.3 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BALL LAKE, 1977

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5018/9400

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|-------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 30 | 1.52 | 0.67- 3.10 | 44.2 | 35.0- 59.0 | 638 | 200- 1900 | 100.0 |
| PIKE | * 27 | 2.85 | 0.52- 7.50 | 65.9 | 48.0- 100.0 | 1841 | 500- 8000 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | C | D | D | D | - | - |
| PIKE | - | - | - | - | - | C | D | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.010090 | 1.31118 | 0.517 | 50 | | 1.70 |
| PIKE | 0.000438 | 2.05367 | 0.617 | 60 | | 1.96 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BALL LAKE, 1976

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5018/9400

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 49 | 2.95 | 0.38- | 9.40 | 52.3 | 29.0- | 92.5 | 1146 | 190- | 6895 | 93.9 |
| WALLEYE | * 48 | 2.23 | 0.28- | 4.70 | 36.6 | 27.5- | 48.0 | 578 | 200- | 1400 | 87.5 |
| WHITFISH | 23 | 0.79 | 0.20- | 1.70 | 40.9 | 33.5- | 48.5 | 1077 | 520- | 1755 | 69.6 |
| W. SUCKER | 18 | 1.13 | 0.11- | 2.30 | 41.0 | 30.5- | 51.0 | 1005 | 440- | 1930 | 72.2 |
| R.H. SUCKER | 2 | 4.20 | 2.40- | 6.00 | 48.0 | 45.0- | 51.0 | 1753 | 1235- | 2270 | 100.0 |
| BURBOT | 1 | 0.70 | - | - | 41.5 | - | - | 460 | - | - | - |
| S.M. BASS | 3 | 2.30 | 1.80- | 3.10 | 39.1 | 37.7- | 41.0 | 1143 | 1050- | 1300 | 100.0 |
| CISCO | 4 | 1.42 | 0.59- | 2.10 | 37.0 | 35.5- | 39.5 | 770 | 630- | 1040 | 100.0 |
| MOONEYE | 10 | 0.92 | 0.56- | 1.60 | 30.3 | 28.0- | 35.0 | 445 | 340- | 840 | 100.0 |
| Y. PERCH | 15 | 1.00 | 0.35- | 2.40 | 21.1 | 19.5- | 25.0 | 157 | 110- | 240 | 86.7 |
| SAUGER | * 47 | 1.96 | 0.58- | 5.70 | 27.3 | 21.0- | 41.0 | 187 | 70- | 700 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | B | B | D | D | D | D | D |
| WALLEYE | - | - | B | C | D | D | D | - | - | - |
| SAUGER | - | C | D | D | D | D | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000300 | 2.25188 | 0.619 | 60 | | 3.03 |
| WALLEYE | 0.000043 | 2.96354 | 0.588 | 50 | | 4.63 |
| SAUGER | 0.008375 | 1.62976 | 0.586 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BALL LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5018/9400

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|-------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 58 | 1.58 | 0.41- | 4.26 | 44.3 | 22.5- | 61.5 | 936 | 85- | 2875 | 94.8 |
| W. SUCKER * | 38 | 1.33 | 0.26- | 3.00 | 45.4 | 29.2- | 54.0 | 1211 | 325- | 1700 | 81.6 |
| Y. PERCH | 11 | 1.57 | 0.37- | 2.18 | 24.4 | 20.0- | 28.0 | 212 | 100- | 310 | 90.9 |
| SAUGER | 14 | 1.95 | 0.38- | 6.39 | 29.2 | 18.0- | 39.8 | 203 | 60- | 390 | 92.9 |
| S.M. BASS | 8 | 1.45 | 0.51- | 2.41 | 38.6 | 33.5- | 42.8 | 1015 | 595- | 1480 | 100.0 |
| WHITEFISH | 44 | 0.71 | 0.15- | 2.54 | 47.5 | 38.6- | 56.5 | 1221 | 650- | 1995 | 59.1 |
| PIKE * | 42 | 4.02 | 0.89- | 10.70 | 62.1 | 43.0- | 81.6 | 1585 | 129- | 4350 | 100.0 |
| R.H. SUCKER | 10 | 1.99 | 0.49- | 4.69 | 49.5 | 37.7- | 57.5 | 1604 | 600- | 2560 | 90.0 |
| MOONEYE | 49 | 0.80 | 0.16- | 2.82 | 31.9 | 23.4- | 37.4 | 349 | 125- | 525 | 77.6 |
| CISCO | 5 | 1.91 | 1.36- | 2.76 | 41.9 | 39.7- | 45.0 | 981 | 820- | 1360 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | - | - | A | B | C | D | D | - | - |
| PIKE | - | - | - | - | - | D | D | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| W. SUCKER | 0.000090 | 2.46083 | 0.359 | 0 | | 0.00 |
| PIKE | 0.002214 | 1.78121 | 0.538 | 60 | | 3.25 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BALL LAKE, 1974

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5018/9400

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 28 | 0.78 | 0.13- | 3.25 | 44.6 | 38.1- | 55.9 | 1480 | 851- | 2835 | 35.7 |
| WALLEYE | 50 | 2.45 | 0.94- | 4.42 | 46.0 | 34.3- | 58.4 | 1189 | 397- | 2466 | 100.0 |
| PIKE | * 32 | 2.95 | 0.54- | 7.95 | 67.6 | 50.8- | 82.6 | 2314 | 27- | 4308 | 100.0 |
| CISCO | 2 | 0.69 | 0.48- | 0.89 | 38.8 | 35.6- | 41.9 | 1106 | 851- | 1361 | 50.0 |
| S.M. BASS | 5 | 2.39 | 1.93- | 3.11 | 36.6 | 34.3- | 39.4 | 890 | 737- | 1247 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | C | D | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000210 | 2.22702 | 0.375 | 60 | | 1.91 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BARREL LAKE, 1976

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 4939/9131

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|------------|-----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 10 | 0.13 | 0.08- | 0.17 | 41.8 | 37.5- | 45.0 | 1031 | 750- | 1335 | 0.0 |
| PIKE | 3 | 1.30 | 1.10- | 1.50 | 73.7 | 68.5- | 77.0 | 338.3 | 2460- | 4110 | 100.0 |
| WALLEYE | * 9 | 0.88 | 0.50- | 1.25 | 50.2 | 46.0- | 56.0 | 1459 | 1100- | 2040 | 100.0 |
| CISCO | 20 | 0.37 | 0.24- | 0.57 | 39.3 | 35.5- | 42.5 | 895 | 605- | 1200 | 5.0 |
| R.H.SUCKER | 4 | 0.46 | 0.18- | 0.65 | 39.8 | 38.0- | 41.0 | 969 | 870- | 1045 | 50.0 |
| W. SUCKER | 6 | 0.31 | 0.16- | 0.53 | 44.0 | 38.0- | 48.5 | 1283 | 810- | 1945 | 16.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | B | C | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000004 | 3.14628 | 0.702 | 50 | | 0.84 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BARTON LAKE, 1977

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5204/9410

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 10 | 0.27 | 0.10- 0.37 | 57.8 | 48.0- 73.0 | 1101 | 341- 2951 | 0.0 |
| WALLEYE | * 10 | 0.52 | 0.19- 1.50 | 42.7 | 37.0- 48.0 | 636 | 341- 1022 | 40.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | A | B | L |
| WALLEYE | - | - | - | - | A | B | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000003 | 2.79744 | 0.696 | 60 | | 0.28 |
| WALLEYE | 0.000000 | 4.93698 | 0.646 | 50 | | 0.95 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BIG SAWBILL LAKE, 1977

TOWNSHIP: -

DISTRICT: RAINY RIVER

LAT/LONG: 4854/9300

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 13 | 0.18 | 0.11- | 0.46 | 61.2 | 48.6- | 94.0 | 1792 | 610- | 5380 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BIGSHELL LAKE, 1977
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5124/9425
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|----------|---|---------------|-------|-----------|--------------|-----------|------|--------------|-------|--|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * | 6 | 0.68 | 0.35-1.30 | 62.7 | 54.5-78.0 | 1238 | 675-2475 | 66.7 | | |
| L. TROUT | | 5 | 0.53 | 0.30-0.89 | 53.1 | 48.0-61.5 | 1013 | 675-1575 | 40.0 | | |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | - | A | B | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000002 | 3.01854 | 0.900 | 60 | | 0.55 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BLACK BIRCH LAKE, 1977

TOWNSHIP: -

DISTRICT : KENORA

LAT/LONG: 5230/9500

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (G.) | | >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|-------------|----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 10 | 0.85 | 0.32- 1.80 | 34.2 | 23.2- 48.2 | 386 | 113- 675 | 80.0 |
| PIKE | 2 | 0.69 | 0.50- 0.87 | 50.0 | 43.2- 56.8 | 563 | 225- 900 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | B | B | C | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000903 | 1.91964 | 0.948 | 50 | | 1.65 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BLUEBERRY LAKE, 1975
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5009/9444
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 89 | 0.71 | 0.17- | 3.02 | 53.0 | 29.5- | 90.5 | 979 | 140- | 5100 | 64.0 |
| WALLEYE | * 47 | 0.58 | 0.19- | 1.22 | 42.6 | 21.0- | 59.0 | 881 | 85- | 2130 | 57.4 |
| W. SUCKER | * 19 | 0.17 | 0.05- | 0.32 | 41.9 | 16.0- | 50.7 | 1129 | 40- | 1815 | 0.0 |
| Y. PERCH | * 41 | 0.12 | 0.06- | 0.22 | 18.3 | 13.6- | 24.6 | 80 | 25- | 190 | 0.0 |
| S.M. BASS | 2 | 0.60 | 0.30- | 0.90 | 37.6 | 33.7- | 41.5 | 963 | 660- | 1265 | 50.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | A | B | C | D | D |
| WALLEYE | - | A | A | A | A | B | B | C | - | - |
| W. SUCKER | A | A | A | A | A | A | A | - | - | - |
| Y. PERCH | A | A | A | A | A | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000001 | 3.33149 | 0.903 | 60 | | 0.91 |
| WALLEYE | 0.000647 | 1.79336 | 0.883 | 50 | | 0.72 |
| W. SUCKER | 0.001661 | 1.21139 | 0.685 | 0 | | 0.00 |
| Y. PERCH | 0.012215 | 0.76322 | 0.462 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BUCK LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 4926/94 32

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥.5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT * | 16 | 1.43 | 0.76- | 2.60 | 54.7 | 44.0- | 63.5 | 2100 | 930- | 3590 | 100.0 |
| W. SUCKER | 4 | 0.14 | 0.10- | 0.17 | 39.6 | 31.0- | 45.0 | 835 | 395- | 1150 | 0.0 |
| WHITEFISH | 1 | 0.07 | - | - | 36.0 | - | - | 630 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | B | C | D | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000006 | 3.08696 | 0.794 | 60 | | 1.76 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: BULGING LAKE, 1977

TOWNSHIP: - DISTRICT : KENORA

LAT/LONG: 5056/9457

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | Σ ≥ .5 PPM |
|----------|---|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | 4 | 0.41 | 0.22- 0.87 | 52.6 | 44.5- 61.0 | 1249 | 681- 1816 | 25.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CHASE LAKE, 1975

TOWNSHIP: -

DISTRICT: KENOPA

LAT/LONG: 50 37/94 57

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 82 | 0.52 | 0.13- | 1.40 | 54.8 | 33.5- | 78.0 | 1226 | 275- | 3800 | 50.0 |
| WALLEYE | * 53 | 0.47 | 0.10- | 1.00 | 38.2 | 25.0- | 57.5 | 605 | 140- | 1875 | 41.5 |
| CISCO | * 41 | 0.10 | 0.07- | 0.15 | 26.4 | 20.5- | 34.0 | 273 | 130- | 485 | 0.0 |
| W. SUCKER | * 54 | 0.10 | 0.03- | 0.29 | 41.6 | 33.5- | 47.0 | 1032 | 455- | 1585 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | A | A | B | B | C |
| WALLEYE | - | - | A | A | A | B | C | C | - | - |
| CISCO | - | A | A | A | A | A | - | - | - | - |
| W. SUCKER | - | - | - | A | A | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000050 | 2.28388 | 0.803 | 60 | | 0.57 |
| WALLEYE | 0.000131 | 2.22440 | 0.843 | 50 | | 0.79 |
| CISCO | 0.019553 | 0.50700 | 0.336 | 0 | | 0.00 |
| W. SUCKER | 0.000000 | 4.60256 | 0.577 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CLAY LAKE, 1977

TOWNSHIP: REDVERS DISTRICT: KENORA

LAT/LONG: 5003/9330

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 30 | 6.97 | 2.90- 9.90 | 50.3 | 42.0- 59.0 | 1321 | 910- 1920 | 100.0 |
| PIKE | * 30 | 4.83 | 2.20- 8.40 | 61.3 | 45.0- 70.0 | 1628 | 650- 2550 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | D | D | D | - | - |
| PIKE | - | - | - | - | - | D | D | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.032496 | 1.36472 | 0.399 | 50 | | 6.77 |
| PIKE | 0.012897 | 1.43318 | 0.502 | 60 | | 4.56 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CLAY LAKE, 1976

TOWNSHIP: REDVERS

DISTRICT: KENORA

LAT/LONG: 5003/9330

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | >= .5 PPM |
|-----------|------|---------------|-------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 50 | 7.83 | 4.50- 12.10 | 49.8 | 40.8- 59.4 | 1293 | 482- 2013 | 100.0 |
| PIKE | * 51 | 5.84 | 3.60- 13.00 | 65.0 | 50.1- 86.2 | 1793 | 879- 4423 | 100.0 |
| WHITEFISH | 5 | 1.19 | 0.75- 2.60 | 47.3 | 42.4- 51.5 | 1451 | 964- 1928 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | D | D | D | - | - |
| PIKE | - | - | - | - | - | D | D | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.089366 | 1.14071 | 0.503 | 50 | | 7.75 |
| PIKE | 0.046379 | 1.15248 | 0.570 | 60 | | 5.20 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CLAY LAKE, 1975

TOWNSHIP: REDVERS

DISTRICT: KENORA

LAT/LONG: 5003/9330

DATA SOURCE: FRE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | | WEIGHT (G.) | | | % >= .5 PPM |
|-----------|-------|---------------|-------------|--------------|------------|--|-------------|-----------|--|-------------|
| | | MEAN | RANGE | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 95 | 6.44 | 2.45- 11.59 | 44.8 | 30.5- 53.5 | | 1065 | 315- 1675 | | 100.0 |
| WHITEFISH | 21 | 1.85 | 0.39- 3.12 | 41.8 | 36.5- 47.0 | | 1245 | 765- 1730 | | 95.2 |
| PIKE | * 116 | 5.43 | 1.03- 11.30 | 54.9 | 34.0- 81.0 | | 1292 | 280- 3610 | | 100.0 |
| CISCO | * 26 | 2.87 | 1.46- 4.64 | 35.2 | 30.0- 40.0 | | 683 | 440- 990 | | 100.0 |
| SAUGER | * 24 | 4.81 | 2.04- 6.84 | 33.8 | 30.0- 40.0 | | 416 | 265- 815 | | 100.0 |
| Y. PERCH | 16 | 2.16 | 0.70- 4.93 | 16.3 | 12.0- 27.0 | | 77 | 20- 330 | | 100.0 |
| BURBOT | 13 | 5.16 | 2.77- 6.87 | 50.1 | 39.5- 57.0 | | 1103 | 410- 1640 | | 100.0 |
| W. SUCKER | 18 | 1.35 | 0.17- 2.81 | 42.9 | 33.5- 55.0 | | 1283 | 595- 2850 | | 94.4 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | D | D | D | D | D | - | - |
| PIKE | - | - | - | - | D | D | D | D | D | D |
| CISCO | - | - | - | D | D | D | - | - | - | - |
| SAUGER | - | - | - | D | D | D | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.009707 | 1.69361 | 0.631 | 50 | | 7.46 |
| PIKE | 0.011315 | 1.52380 | 0.524 | 60 | | 5.80 |
| CISCO | 0.001124 | 2.19037 | 0.528 | 0 | | 0.00 |
| SAUGER | 0.013876 | 1.65556 | 0.504 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CLAY LAKE, 1970

TOWNSHIP: REDVERS

DISTRICT: KENORA

LAT/LONG: 50 3/9 330

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|-------|---------------|-------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 274 | 12.06 | 1.20- 24.00 | 41.6 | 22.5- 53.0 | 954 | 370- 1900 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | D | D | D | D | D | D | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.051379 | 1.45306 | 0.484 | 50 | | 15.12 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: COLI LAKE, 1977

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5120/9335

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|------|---------------|-----------|--------------|-----------|--|--------------|----------|------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 20 | 0.44 | 0.20-0.80 | 65.2 | 48.8-85.3 | | 1765 | 568-4086 | 30.0 | |
| WALLEYE | * 20 | 0.37 | 0.22-0.61 | 40.3 | 30.0-50.5 | | 533 | 227-908 | 25.0 | |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | A | B | B |
| WALLEYE | - | - | - | A | A | A | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000162 | 1.88462 | 0.878 | 60 | | 0.36 |
| WALLEYE | 0.000116 | 2.17000 | 0.854 | 50 | | 0.57 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CRYSTAL LAKE, 1977

TOWNSHIP: - DISTRICT : KENORA

LAT/LONG: 5102/9424

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | ≥ .5 PPM |
|----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 10 | 0.80 | 0.32- | 1.40 | 50.8 | 44.0- | 61.0 | 939 | 454- | 1575 | 90.0 |
| PIKE | 5 | 0.50 | 0.40- | 0.60 | 56.9 | 53.0- | 61.0 | 860 | 454- | 1462 | 60.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: CULVERSON LAKE, 1977
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5220/9328
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 10 | 0.96 | 0.54- 1.70 | 43.7 | 34.0- 48.0 | 579 | 114- 908 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | E | C | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC AT STD. |
|---------|----------|---------|-------|----------|------------|
| WALLEYE | 0.000066 | 2.52111 | 0.694 | 50 | 1.27 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: DELANEY LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5005/9403

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER * | 52 | 0.09 | 0.03- | 0.25 | 35.5 | 22.0- | 44.5 | 547 | 125- | 950 | 0.0 |
| S.M. BASS * | 24 | 0.27 | 0.12- | 0.58 | 33.9 | 20.3- | 42.4 | 668 | 160- | 1400 | 8.3 |
| R. BASS * | 35 | 0.23 | 0.09- | 0.69 | 17.4 | 10.7- | 29.2 | 137 | 40- | 375 | 2.9 |
| BURBOT * | 27 | 0.44 | 0.10- | 0.68 | 53.8 | 34.0- | 61.5 | 995 | 235- | 1550 | 25.9 |
| WHITEFISH | 18 | 0.14 | 0.08- | 0.35 | 64.3 | 58.5- | 72.0 | 2788 | 1990- | 3630 | 0.0 |
| PIKE | 11 | 0.48 | 0.12- | 0.75 | 71.7 | 61.0- | 78.2 | 2610 | 1600- | 3350 | 54.5 |
| L. TROUT * | 31 | 0.27 | 0.14- | 0.55 | 57.5 | 45.6- | 68.2 | 1880 | 860- | 3300 | 3.2 |
| WALLEYE | 2 | 0.87 | 0.58- | 1.16 | 45.6 | 44.5- | 46.7 | 1100 | 1025- | 1175 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | A | A | A | A | A | A | - | - | - |
| S.M. BASS | - | A | A | A | A | A | B | - | - | - |
| R. BASS | A | A | A | A | B | - | - | - | - | - |
| BURBOT | - | - | - | - | A | A | A | B | C | - |
| L. TROUT | - | - | - | - | - | A | A | A | A | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| W. SUCKER | 0.000027 | 2.23741 | 0.749 | 0 | | 0.00 |
| S.M. BASS | 0.001525 | 1.46144 | 0.821 | 0 | | 0.00 |
| R. BASS | 0.005855 | 1.25906 | 0.654 | 0 | | 0.00 |
| BURBOT | 0.000018 | 2.51925 | 0.852 | 0 | | 0.00 |
| L. TROUT | 0.001448 | 1.27898 | 0.409 | 60 | | 0.27 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: EAGLE LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5040/9453

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|-------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 181 | 0.85 | 0.20- | 2.00 | 54.7 | 34.0- | 82.5 | 1244 | 255- | 4110 | 79.0 |
| W. SUCKER | * 70 | 0.20 | 0.06- | 0.46 | 44.2 | 37.0- | 51.0 | 1267 | 805- | 1925 | 0.0 |
| WALLEYE | * 165 | 0.90 | 0.35- | 1.60 | 41.2 | 19.1- | 54.6 | 762 | 199- | 1927 | 91.5 |
| WHITEFISH | * 51 | 0.10 | 0.06- | 0.19 | 43.2 | 32.0- | 53.5 | 1235 | 450- | 2450 | 0.0 |
| CISCO | 10 | 0.26 | 0.15- | 0.41 | 37.2 | 26.5- | 45.5 | 745 | 180- | 1330 | 0.0 |
| Y. PERCH | * 6 | 0.12 | 0.09- | 0.21 | 22.4 | 19.0- | 29.0 | 173 | 100- | 340 | 0.0 |
| BURBOT | 10 | 0.61 | 0.36- | 0.87 | 55.5 | 51.0- | 58.5 | 1138 | 915- | 1400 | 80.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| SPECIES | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | B | B | C | D | D |
| W. SUCKER | - | - | - | - | A | A | A | B | - | - |
| WALLEYE | - | A | A | B | B | B | C | D | - | - |
| WHITEFISH | - | - | - | A | A | A | A | A | - | - |
| Y. PERCH | - | A | A | A | A | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000080 | 2.29640 | 0.788 | 60 | | 0.97 |
| W. SUCKER | 0.000000 | 3.58089 | 0.471 | 0 | | 0.00 |
| WALLEYE | 0.009658 | 1.20909 | 0.583 | 50 | | 1.09 |
| WHITEFISH | 0.000193 | 1.64636 | 0.643 | 0 | | 0.00 |
| Y. PERCH | 0.000808 | 1.60834 | 0.821 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: EAGLEHEAD LAKE, 1977
 TOWNSHIP: - DISTRICT: THUNDER BAY LAT/LONG: 4902/8912
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 17 | 0.36 | 0.13- 0.78 | 49.2 | 32.0- 69.0 | 943 | 250- 2000 | 17.6 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | A | A | B | B | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****RECESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000037 | 2.34053 | 0.976 | 60 | 0.53 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: EDEN LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5040/9459

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITFISH * | 50 | 0.07 | 0.02- | 0.14 | 38.1 | 27.5- | 45.0 | 656 | 230- | 1170 | 0.0 |
| L. TROUT * | 39 | 0.33 | 0.09- | 0.80 | 48.8 | 29.0- | 57.0 | 1343 | 225- | 2400 | 17.9 |
| BURBOT * | 21 | 0.28 | 0.18- | 0.47 | 55.8 | 45.0- | 68.0 | 1238 | 660- | 2015 | 0.0 |
| W. SUCKER * | 8 | 0.10 | 0.04- | 0.19 | 43.9 | 40.0- | 48.0 | 1214 | 920- | 1770 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | A | A | A | A | A | - | - | - |
| L. TROUT | - | - | - | A | A | A | A | B | - | - |
| BURBOT | - | - | - | - | - | A | A | A | B | - |
| W. SUCKER | - | - | - | - | - | A | B | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000010 | 2.40696 | 0.599 | 0 | | 0.00 |
| L. TROUT | 0.000067 | 2.17051 | 0.692 | 60 | | 0.49 |
| BURBOT | 0.000109 | 1.94728 | 0.682 | 0 | | 0.00 |
| W. SUCKER | 0.000000 | 7.52322 | 0.920 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ELIZABETH LAKE, 1977
TOWNSHIP: - DISTRICT: THUNDER BAY LAT/LONG: 4915/8826
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 2 | 0.97 | 0.53- | 1.40 | 51.8 | 51.0- | 52.5 | 1405 | 1400- | 1410 | 100.0 |
| PIKE | * 10 | 0.37 | 0.18- | 0.92 | 50.7 | 40.0- | 65.0 | 870 | 500- | 1400 | 20.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | B | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000000 | 3.74299 | 0.923 | 60 | | 0.62 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ENIWINE LAKE, 1977
 TOWNSHIP: - DISTRICT: RAINY RIVER LAT/LONG: 4908/9241
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 3 | 0.50 | 0.37- | 0.59 | 45.7 | 44.0- | 46.5 | 1147 | 1020- | 1240 | 66.7 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: FAVEL LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5000/9400

DATA SOURCE: FRE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | ≥0.5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 50 | 0.17 | 0.09- | 0.40 | 38.6 | 33.0- | 43.5 | 742 | 490- | 1040 | 0.0 |
| L. TROUT * | 28 | 0.46 | 0.20- | 1.50 | 46.8 | 33.0- | 60.0 | 1248 | 420- | 2750 | 25.0 |
| BURBOT | 7 | 0.91 | 0.73- | 1.10 | 55.8 | 52.0- | 59.0 | 1267 | 1000- | 1430 | 100.0 |
| W. SUCKER | 4 | 0.24 | 0.17- | 0.33 | 46.5 | 41.0- | 50.0 | 1756 | 810- | 2415 | 0.0 |
| MUSKIE | 1 | 0.47 | - | - | 65.0 | - | - | 2320 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | A | A | A | B | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000202 | 1.98040 | 0.573 | 60 | | 0.67 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GARDEN LAKE, 1976

TOWNSHIP: -

DISTRICT: KENCRA

LAT/LONG: 5010/9400

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 56 | 1.21 | 0.50- | 2.40 | 39.7 | 23.0- | 47.0 | 748 | 125- | 1200 | 100.0 |
| PIKE | * 46 | 1.06 | 0.38- | 2.20 | 46.6 | 31.0- | 54.0 | 702 | 200- | 1300 | 97.8 |
| W. SUCKER | * 18 | 0.32 | 0.09- | 0.71 | 40.1 | 21.5- | 45.0 | 1043 | 130- | 1620 | 11.1 |
| WHITEFISH | 2 | 0.62 | 0.57- | 0.67 | 43.8 | 41.0- | 46.5 | 1350 | 1200- | 1500 | 100.0 |
| Y. PERCH | 5 | 0.46 | 0.18- | 0.68 | 24.0 | 17.5- | 29.5 | 268 | 80- | 475 | 40.0 |
| R. BASS | 2 | 0.63 | 0.58- | 0.68 | 21.8 | 19.5- | 24.0 | 270 | 195- | 345 | 100.0 |
| BURBOT | 1 | 0.38 | - | - | 51.0 | - | - | 1235 | - | - | - |
| S.M. BASS | 1 | 1.00 | - | - | 32.5 | - | - | 645 | - | - | - |
| CISCO | 12 | 0.25 | 0.16- | 0.39 | 32.0 | 16.5- | 39.0 | 639 | 50- | 1060 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | B | B | B | C | D | - | - | - |
| PIKE | - | - | - | A | B | B | C | D | - | - |
| W. SUCKER | - | A | A | A | A | A | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.004702 | 1.49640 | 0.731 | 50 | | 1.64 |
| PIKE | 0.001205 | 1.75326 | 0.570 | 60 | | 1.58 |
| W. SUCKER | 0.000347 | 1.82072 | 0.552 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GAUGINO LAKE, 1975
TOWNSHIP: NICKLE DISTRICT: THUNDER BAY LAT/LONG: 4909/8542
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|-----|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | 22 | 0.12 | 0.02- | 0.36 | 24.7 | 14.5- | 32.0 | 223 | 43- | 468 | 0.0 |
| WALLEYE | * 20 | 0.43 | 0.10- | 1.40 | 29.4 | 16.5- | 40.0 | 258 | 28- | 539 | 25.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | A | A | A | A | B | C | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000096 | 2.43424 | 0.916 | 50 | | 1.31 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GOOSENECK LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5002/9448

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT * | 31 | 0.73 | 0.30- | 1.91 | 59.1 | 35.0- | 76.0 | 2126 | 310- | 4 350 | 71.0 |
| PIKE * | 78 | 0.81 | 0.33- | 1.46 | 64.8 | 36.0- | 86.5 | 1922 | 260- | 4 200 | 84.6 |
| CISCO * | 44 | 0.31 | 0.14- | 0.72 | 17.9 | 12.5- | 22.0 | 42 | 20- | 75 | 9.1 |
| S.M. BASS * | 33 | 0.98 | 0.53- | 1.69 | 37.2 | 28.8- | 45.0 | 995 | 380- | 1 750 | 100.0 |
| W. SUCKER * | 48 | 0.18 | 0.05- | 0.50 | 43.7 | 34.3- | 53.5 | 1129 | 500- | 20 70 | 2.1 |
| R.H. SUCKER | 5 | 0.20 | 0.14- | 0.27 | 45.5 | 40.5- | 49.0 | 1131 | 860- | 14 70 | 0.0 |
| R. BASS | 1 | 0.46 | - | - | 16.0 | - | - | 75 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | A | A | B | B | C | C |
| PIKE | - | - | - | - | A | A | B | B | C | C |
| CISCO | A | A | B | - | - | - | - | - | - | - |
| S.M. BASS | - | - | - | B | B | C | D | - | - | - |
| W. SUCKER | - | - | - | - | A | A | A | A | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000276 | 1.91032 | 0.658 | 60 | | 0.69 |
| PIKE | 0.001152 | 1.56375 | 0.795 | 60 | | 0.70 |
| CISCO | 0.000143 | 2.64521 | 0.659 | 0 | | 0.00 |
| S.M. BASS | 0.000598 | 2.03772 | 0.812 | 0 | | 0.00 |
| W. SUCKER | 0.000266 | 1.69365 | 0.313 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GRASSY LAKE, 1977

TOWNSHIP: -

DISTRICT: RAINY RIVER

LAT/LONG: 4840/9242

DATA SOURCE: MCE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 14 | 0.34 | 0.21- | 0.46 | 36.8 | 34.1- | 42.6 | 453 | 230- | 700 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GRASSY NARROWS LAKE, 1977

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5009/9359

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ>=.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 30 | 2.40 | 1.20- | 3.80 | 40.4 | 30.5- | 64.3 | 464 | 100- | 2100 | 100.0 |
| PIKE | * 30 | 2.88 | 1.20- | 5.40 | 64.7 | 48.5- | 88.6 | 1320 | 100- | 4500 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | C | D | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000066 | 2.54260 | 0.756 | 60 | | 2.21 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GRASSY NARROWS LAKE, 1976

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5009/9359

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM | |
|-----------|---|---------------|-------|-------|--------------|-------|-------|--------------|-------|------|------------|-------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | | |
| PIKE | * | 64 | 2.72 | 0.08- | 7.20 | 55.8 | 34.5- | 79.0 | 1320 | 260- | 3790 | 96.9 |
| WHITEFISH | | 33 | 0.23 | 0.07- | 0.54 | 40.1 | 31.5- | 48.0 | 1092 | 460- | 1815 | 6.1 |
| S.M. BASS | | 2 | 0.65 | 0.50- | 0.79 | 33.5 | 33.0- | 34.0 | 688 | 675- | 700 | 100.0 |
| BURBOT | | 1 | 0.48 | - | - | 55.0 | - | - | 1100 | - | - | - |
| WALLEYE | * | 54 | 2.02 | 1.10- | 5.10 | 40.9 | 24.5- | 57.0 | 809 | 140- | 1965 | 100.0 |
| W. SUCKER | * | 22 | 0.53 | 0.22- | 1.60 | 39.5 | 31.0- | 48.0 | 882 | 325- | 1395 | 54.5 |
| CISCO | | 15 | 0.27 | 0.08- | 0.49 | 33.8 | 24.0- | 42.0 | 651 | 210- | 1195 | 0.0 |
| MOONEYE | | 15 | 0.73 | 0.42- | 1.40 | 31.6 | 27.5- | 34.0 | 497 | 340- | 630 | 93.3 |
| Y. PERCH | | 8 | 0.46 | 0.34- | 0.68 | 17.6 | 13.5- | 22.0 | 103 | 40- | 190 | 37.5 |
| SAUGER | * | 43 | 2.15 | 1.10- | 3.50 | 30.2 | 22.5- | 39.5 | 257 | 100- | 480 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | B | C | D | D | D | D |
| WALLEYE | - | - | C | C | D | D | D | D | - | - |
| W. SUCKER | - | - | - | A | A | B | B | - | - | - |
| SAUGER | - | B | C | D | D | D | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000062 | 2.61095 | 0.576 | 60 | | 2.71 |
| WALLEYE | 0.070439 | 0.89037 | 0.483 | 50 | | 2.29 |
| W. SUCKER | 0.000349 | 1.96392 | 0.525 | 0 | | 0.00 |
| SAUGER | 0.001153 | 2.20183 | 0.892 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GRASSY NARROWS LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5009/9359

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| MOONEYE | * 23 | 0.84 | 0.40- | 1.86 | 29.1 | 23.0- | 35.0 | 267 | 125- | 520 | 87.0 |
| Y. PERCH | 4 | 1.21 | 0.74- | 2.00 | 22.7 | 18.0- | 28.3 | 186 | 90- | 330 | 100.0 |
| WALLEYE | * 52 | 1.63 | 0.46- | 2.65 | 43.0 | 28.0- | 58.0 | 844 | 200- | 1950 | 98.1 |
| W. SUCKER | * 30 | 0.76 | 0.20- | 1.53 | 42.6 | 34.7- | 50.5 | 951 | 475- | 1425 | 83.3 |
| CISCO | 54 | 0.45 | 0.25- | 0.81 | 37.8 | 32.8- | 46.7 | 679 | 375- | 1480 | 31.5 |
| PIKE | * 44 | 2.81 | 0.73- | 6.32 | 61.8 | 44.2- | 90.4 | 1560 | 475- | 5050 | 100.0 |
| WHITEFISH | 18 | 0.47 | 0.14- | 2.47 | 46.6 | 32.5- | 54.0 | 1193 | 370- | 1930 | 22.2 |
| SAUGER | * 52 | 1.94 | 0.94- | 4.03 | 32.1 | 21.8- | 41.5 | 281 | 75- | 700 | 100.0 |
| MUSKIE | 1 | 6.81 | - | - | 88.0 | - | - | 5800 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| MOONEYE | - | - | B | B | C | D | - | - | - | - |
| WALLEYE | - | - | B | C | C | D | D | D | - | - |
| W. SUCKER | - | - | - | - | A | B | C | - | - | - |
| PIKE | - | - | - | - | - | C | D | D | D | D |
| SAUGER | - | B | C | D | D | D | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| MOONEYE | 0.000042 | 2.91783 | 0.785 | 0 | | 0.00 |
| WALLEYE | 0.013815 | 1.25687 | 0.580 | 50 | | 1.89 |
| W. SUCKER | 0.000039 | 2.61078 | 0.571 | 0 | | 0.00 |
| PIKE | 0.000473 | 2.08496 | 0.710 | 60 | | 2.41 |
| SAUGER | 0.002239 | 1.94048 | 0.826 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GRASSY NARROWS LAKE, 1974

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5009/9359

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %> .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-----------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS | 1 | 1.03 | - | - | 27.9 | - | - | 397 | - | - | - |
| SAUGER | 4 | 2.11 | 1.42- | 2.53 | 37.1 | 36.8- | 38.1 | 489 | 454- | 539 | 100.0 |
| CISCO | 16 | 0.43 | 0.09- | 2.31 | 35.5 | 33.0- | 40.6 | 773 | 567- | 1162 | 18.8 |
| WALLEYE | * 44 | 1.90 | 0.73- | 3.35 | 44.0 | 33.0- | 61.0 | 1094 | 425- | 2608 | 100.0 |
| WHITEFISH | 17 | 0.29 | 0.06- | 0.63 | 42.4 | 34.3- | 47.0 | 1324 | 624- | 1899 | 17.6 |
| PIKE | * 51 | 2.98 | 1.04- | 5.55 | 63.1 | 48.3- | 83.8 | 1926 | 822- | 4394 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | C | C | D | D | D | D | - |
| PIKE | - | - | - | - | - | D | D | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.020800 | 1.18596 | 0.587 | 50 | | 2.15 |
| PIKE | 0.006825 | 1.45182 | 0.497 | 60 | | 2.60 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GRIST LAKE, 1977
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5215/9358
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 10 | 1.77 | 0.70- 2.80 | 36.8 | 22.0- 45.0 | 357 | 169- 565 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | B | B | C | D | D | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.001344 | 1.97124 | 0.867 | 50 | | 3.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GUERNSEY LAKE, 1977

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5130/9309

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 9 | 0.94 | 0.58- | 1.50 | 58.9 | 48.0- | 69.0 | 1230 | 454- | 2370 | 100.0 |
| WALLEYE | * 10 | 1.60 | 0.73- | 2.25 | 49.2 | 34.0- | 62.5 | 1106 | 227- | 2370 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | B | B | C | C | - |
| WALLEYE | - | - | - | - | B | C | D | D | D | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.002489 | 1.44814 | 0.658 | 60 | | 0.94 |
| WALLEYE | 0.003699 | 1.55383 | 0.894 | 50 | | 1.61 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GULLIVER LAKE, 1976
TOWNSHIP: CATHCART DISTRICT: KENORA LAT/LONG: 4910/9119
DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 10 | 0.12 | 0.08- | 0.16 | 38.8 | 35.5- | 42.0 | 781 | 640- | 1060 | 0.0 |
| BURBOT | 1 | 0.46 | - | - | 59.0 | - | - | 1440 | - | - | - |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GUN LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 4957/94 39

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|------------|-------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 68 | 0.84 | 0.35- | 1.85 | 65.8 | 51.7- | 91.1 | 2245 | 620- | 6200 | 92.6 |
| W. SUCKER | * 66 | 0.23 | 0.04- | 0.49 | 39.9 | 12.0- | 48.0 | 893 | 100- | 1880 | 0.0 |
| WALLEYE | * 147 | 0.84 | 0.28- | 2.02 | 50.3 | 28.0- | 67.2 | 1466 | 190- | 3360 | 87.8 |
| SAUGER | 3 | 0.67 | 0.64- | 0.70 | 29.0 | 28.0- | 30.5 | 190 | 140- | 230 | 100.0 |
| CISCO | * 14 | 0.12 | 0.08- | 0.26 | 18.2 | 14.0- | 35.5 | 92 | 30- | 510 | 0.0 |
| B.BULLHEAD | 2 | 0.24 | 0.23- | 0.24 | 28.0 | 27.0- | 29.0 | 368 | 310- | 425 | 0.0 |
| MOONEYE | 9 | 0.29 | 0.22- | 0.38 | 37.6 | 34.0- | 40.4 | 571 | 450- | 755 | 0.0 |
| S.M. BASS | 2 | 0.54 | 0.38- | 0.69 | 36.0 | 32.8- | 39.2 | 768 | 575- | 960 | 50.0 |
| Y. PERCH | * 16 | 0.18 | 0.13- | 0.24 | 15.3 | 13.0- | 18.5 | 55 | 30- | 90 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | - | B | B | C | C |
| W. SUCKER | A | A | A | A | A | A | A | - | - | - |
| WALLEYE | - | - | A | A | A | B | B | C | D | - |
| CISCO | A | A | A | A | A | A | - | - | - | - |
| Y. PERCH | A | A | A | - | - | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000418 | 1.80263 | 0.613 | 60 | | 0.67 |
| W. SUCKER | 0.000204 | 1.87048 | 0.709 | 0 | | 0.00 |
| WALLEYE | 0.000559 | 1.85448 | 0.742 | 50 | | 0.79 |
| CISCO | 0.003247 | 1.23436 | 0.885 | 0 | | 0.00 |
| Y. PERCH | 0.004743 | 1.32655 | 0.787 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GUN LAKE, 1974

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 4957/94 39

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 48 | 0.88 | 0.33- 1.57 | 63.3 | 47.0- 81.3 | 2147 | 737- 4989 | 89.6 |
| WALLEYE | * 14 | 0.57 | 0.18- 1.13 | 45.1 | 33.0- 57.2 | 1106 | 425- 2239 | 50.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | B | C | D |
| WALLEYE | - | - | - | A | A | E | B | C | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000022 | 2.53929 | 0.722 | 60 | | 0.71 |
| WALLEYE | 0.000025 | 2.61472 | 0.814 | 50 | | 0.70 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: GUN LAKE, 1970

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 4957/94 39

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|-------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 115 | 0.72 | 0.31- | 1.80 | 39.5 | 29.5- | 58.0 | 767 | 300- | 2350 | 71.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | B | B | C | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000162 | 2.26899 | 0.788 | 50 | | 1.16 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HAMPTON LAKE, 1977

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5215/9335

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 10 | 0.80 | 0.44- | 1.30 | 49.7 | 42.0- | 60.0 | 463 | 320- | 680 | 60.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KAGIANAGAMI LAKE, 1977

TOWNSHIP: -

DISTRICT : THUNDER BAY

LAT/LONG: 5057/8750

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 36 | 0.54 | 0.28- | 1.10 | 47.8 | 40.0- | 59.0 | 1019 | 600- | 1900 | 41.7 |
| PIKE | * 25 | 0.34 | 0.07- | 1.10 | 60.2 | 32.5- | 81.5 | 1570 | 250- | 3950 | 12.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | A | B | B | - | - |
| PIKE | - | - | - | A | A | A | A | A | B | E |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.001512 | 1.50809 | 0.567 | 50 | | 0.55 |
| PIKE | 0.000002 | 2.94043 | 0.931 | 60 | | 0.30 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KAGINU LAKE, 1975
TOWNSHIP: GERTRUDE DISTRICT: THUNDER BAY LAT/LONG: 4906/8547
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | 14 | 0.14 | 0.08- | 0.19 | 17.8 | 15.5- | 21.0 | 69 | 40- | 128 | 0.0 |
| W. SUCKER | 14 | 0.11 | 0.02- | 0.53 | 34.1 | 18.0- | 48.0 | 493 | 57- | 1164 | 7.1 |
| WALLEYE * | 20 | 0.23 | 0.12- | 0.40 | 38.4 | 19.5- | 61.0 | 689 | 57- | 2483 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | A | A | A | A | A | A | A | A | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.011075 | 0.82206 | 0.769 | 50 | | 0.28 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KAWINOGANS RIVER, 1976

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5139/8955

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 21 | 0.37 | 0.17- | 0.59 | 33.0 | 26.5- | 41.0 | 326 | 194- | 727 | 14.3 |
| R.H.SUCKER* | 9 | 0.22 | 0.03- | 0.62 | 37.5 | 22.0- | 41.0 | 627 | 115- | 768 | 11.1 |
| W. SUCKER | 3 | 0.09 | 0.08- | 0.10 | 34.8 | 30.0- | 37.5 | 512 | 293- | 649 | 0.0 |
| WHITFISH | 1 | 0.09 | - | - | 46.0 | - | - | 1155 | - | - | - |
| PIKE | 1 | 0.24 | - | - | 46.0 | - | - | 667 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| R.H.SUCKER | - | A | A | A | A | A | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|------------|----------|---------|-------|----------|----|---------|
| R.H.SUCKER | 0.000001 | 3.38969 | 0.765 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KEG LAKE, 1977

TOWNSHIP: BYSHE

DATA SOURCE: MOE

DISTRICT: KENORA

LAT/LONG: 5100/9341

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % ≥ .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 21 | 0.26 | 0.11- 0.83 | 37.0 | 20.0- 55.0 | 603 | 57- 1391 | 9.5 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | A | A | A | A | A | A | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.001070 | 1.48782 | 0.762 | 50 | 0.36 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KENOGAMIS LAKE, 1977

TOWNSHIP: -

DISTRICT: THUNDER BAY

LAT/LONG: 4942/8653

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 45 | 0.55 | 0.20- | 1.80 | 40.7 | 29.5- | 67.0 | 569 | 90- | 2250 | 42.2 |
| Y. PERCH | * 20 | 0.10 | 0.05- | 0.28 | 24.4 | 21.0- | 28.0 | 98 | 70- | 200 | 0.0 |
| PIKE | * 56 | 0.56 | 0.19- | 1.05 | 55.8 | 29.5- | 83.0 | 967 | 200- | 4200 | 57.1 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | B | B | C | C | - |
| Y. PERCH | - | A | A | A | A | - | - | - | - | - |
| PIKE | - | - | - | A | A | A | B | B | B | C |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.001021 | 1.66714 | 0.679 | 50 | | 0.69 |
| Y. PERCH | 0.000000 | 3.85849 | 0.738 | 0 | | 0.00 |
| PIKE | 0.001093 | 1.53766 | 0.677 | 60 | | 0.59 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KEYS LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5002/9401

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| CISCO | 3 | 0.25 | 0.10- | 0.41 | 30.7 | 21.5- | 39.7 | 295 | 75- | 575 | 0.0 |
| WHITEFISH * | 15 | 0.24 | 0.18- | 0.52 | 45.3 | 29.8- | 57.0 | 985 | 225- | 1840 | 6.7 |
| W. SUCKER * | 38 | 0.10 | 0.04- | 0.23 | 33.3 | 18.3- | 47.4 | 485 | 50- | 1075 | 0.0 |
| BURBOT | 10 | 0.52 | 0.33- | 0.93 | 41.4 | 31.8- | 50.6 | 498 | 240- | 900 | 40.0 |
| L. TROUT * | 15 | 0.41 | 0.20- | 0.95 | 42.9 | 34.0- | 65.2 | 778 | 315- | 2810 | 20.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | A | A | A | A | A | - | - |
| W. SUCKER | - | A | A | A | A | A | A | - | - | - |
| L. TROUT | - | - | - | - | A | A | B | B | B | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|------|---------|
| WHITEFISH | 0.008782 | 0.86435 | 0.519 | 0 | 0.00 | |
| W. SUCKER | 0.000604 | 1.44512 | 0.819 | 0 | 0.00 | |
| L. TROUT | 0.001420 | 1.48474 | 0.555 | 60 | 0.62 | |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KIRKNESS LAKE, 1977

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5132/9356

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 20 | 0.32 | 0.09- | 0.66 | 63.0 | 46.5- | 92.7 | 1771 | 681- | 5675 | 15.0 |
| WALLEYE | * 17 | 0.37 | 0.18- | 0.84 | 48.5 | 34.5- | 57.9 | 1155 | 568- | 1930 | 23.5 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | A | A | B |
| WALLEYE | - | - | - | - | A | A | A | B | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000042 | 2.13537 | 0.720 | 60 | | 0.26 |
| WALLEYE | 0.000562 | 1.64894 | 0.505 | 50 | | 0.36 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: KISHIKAS LAKE, 1977

TOWNSHIP: -

DISTRICT : KENORA

LAT/LONG: 5208/9200

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ >= .5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|----------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 16 | 0.48 | 0.20- | 0.94 | 40.1 | 32.2- | 47.0 | 561 | 228- | 795 | 50.0 |
| PIKE | 16 | 0.35 | 0.10- | 0.67 | 49.5 | 32.0- | 58.9 | 604 | 114- | 909 | 25.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABOPATORY SERVICES BRANCH

LOCATION: LAC SEUL, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5020/9216

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 12 | 0.84 | 0.26- | 1.72 | 57.2 | 41.5- | 70.5 | 1386 | 582- | 2424 | 83.3 |
| WALLEYE | * 33 | 0.60 | 0.22- | 1.13 | 47.5 | 38.0- | 58.0 | 1256 | 522- | 2100 | 57.6 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | C | D | D |
| WALLEYE | - | - | - | - | A | B | B | C | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000002 | 3.14965 | 0.783 | 60 | | 0.90 |
| WALLEYE | 0.000018 | 2.68140 | 0.766 | 50 | | 0.64 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAC SEUL, 1972

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5020/9216

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 40 | 0.78 | 0.34- 1.76 | 47.6 | 40.6- 57.2 | 1537 | 953- 2415 | 85.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | B | C | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000083 | 2.35127 | 0.585 | 50 | | 0.82 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAC SEUL, 1971

TOWNSHIP: WAPESE BAY

DISTRICT: KENORA

LAT/LONG: 5020/9216

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|-------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 194 | 0.75 | 0.20- | 1.62 | 59.1 | 40.6- | 91.4 | 1768 | 544- | 7347 | 78.4 |
| WALLEYE | * 238 | 0.40 | 0.06- | 1.11 | 37.4 | 21.6- | 58.4 | 792 | 102- | 2381 | 25.6 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | B | C | C |
| WALLEYE | - | A | A | A | A | A | B | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.001004 | 1.60622 | 0.620 | 60 | | 0.72 |
| WALLEYE | 0.001471 | 1.51556 | 0.579 | 50 | | 0.55 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: L MANITOUWADGE LAKE, 1975
TOWNSHIP: GERTRUDE DISTRICT: THUNDER BAY LAT/LONG: 4908/8548
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH * | 20 | 0.11 | 0.07- | 0.24 | 18.7 | 15.5- | 25.0 | 102 | 57- | 199 | 0.0 |
| W. SUCKER | 14 | 0.09 | 0.02- | 0.23 | 36.4 | 20.5- | 48.0 | 572 | 114- | 1149 | 0.0 |
| WALLEYE * | 20 | 0.24 | 0.09- | 0.53 | 40.8 | 28.0- | 64.5 | 700 | 199- | 2554 | 5.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | A | A | A | A | A | - | - | - | - | - |
| WALLEYE | - | - | A | A | A | A | A | B | B | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.001279 | 1.51191 | 0.640 | 0 | | 0.00 |
| WALLEYE | 0.000153 | 1.97207 | 0.827 | 50 | | 0.34 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LITTLE MOSE LAKE, 1975
 TOWNSHIP: GEMMELL DISTRICT: THUNDER BAY LAT/LONG: 4908/8546
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | 13 | 0.07 | 0.03- | 0.14 | 19.1 | 14.5- | 28.5 | 95 | 34- | 326 | 0.0 |
| W. SUCKER | 17 | 0.06 | 0.02- | 0.15 | 36.8 | 22.5- | 47.5 | 620 | 142- | 1178 | 0.0 |
| WALLEYE | 17 | 0.26 | 0.13- | 0.64 | 43.2 | 30.0- | 72.0 | 824 | 241- | 2767 | 11.8 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MADDEN LAKE, 1977

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5156/9249

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 10 | 1.03 | 0.36- 1.80 | 45.7 | 27.0- 58.0 | 1003 | 115- 2497 | 90.0 |
| PIKE | * 9 | 1.17 | 0.54- 2.00 | 56.2 | 51.0- 64.0 | 861 | 460- 1362 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | E | B | C | D | - | - |
| PIKE | - | - | - | - | - | - | C | D | D | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000442 | 2.01401 | 0.874 | 50 | | 1.17 |
| PIKE | 0.000000 | 3.71789 | 0.773 | 60 | | 1.41 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MAMEIGWESS LAKE, 1976

TOWNSHIP: IISLEY

DISTRICT: KENORA

LAT/LONG: 4934/9149

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM 0.0 |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 13 | 0.07 | 0.05- | 0.11 | 45.7 | 41.5- | 50.5 | 1220 | 855- | 1750 | |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MARGOT LAKE, 1977

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5228/9310

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | 10 | 0.45 | 0.28- 0.61 | 44.6 | 36.0- 55.0 | 763 | 230- 2045 | 50.0 |
| PIKE | * 10 | 0.61 | 0.19- 0.91 | 60.2 | 42.0- 77.0 | 1079 | 227- 2950 | 70.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | B | B | C |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000087 | 2.14075 | 0.645 | 60 | | 0.56 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MARSHALOK LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5022/9335

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH * | 43 | 0.04 | 0.01- | 0.13 | 43.2 | 34.5- | 56.0 | 1382 | 670- | 2988 | 0.0 |
| CISCO | 5 | 0.10 | 0.06- | 0.13 | 35.7 | 31.5- | 40.0 | 746 | 600- | 1056 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | - | A | A | A | A | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000089 | 1.57735 | 0.383 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HATCHETT LAKE, 1977

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5213/9323

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | >= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 10 | 0.69 | 0.28- | 1.10 | 41.3 | 27.0- | 54.0 | 842 | 113- | 2270 | 70.0 |
| PIKE | * 5 | 0.73 | 0.34- | 1.60 | 54.0 | 39.0- | 92.0 | 1271 | 340- | 4314 | 60.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | B | B | C | C | - | - |
| PIKE | - | - | - | - | A | B | B | B | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.001585 | 1.61612 | 0.727 | 50 | | 0.88 |
| PIKE | 0.000722 | 1.71762 | 0.970 | 60 | | 0.82 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MATTICE LAKE, 1977
TOWNSHIP: - DISTRICT: THUNDER BAY LAT/LONG: 5014/8907
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 25 | 0.40 | 0.12- 1.10 | 58.0 | 36.0- 85.0 | 1556 | 500- 4400 | 20.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | B | B |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000023 | 2.37874 | 0.819 | 60 | | 0.40 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MAWN LAKE, 1977

TOWNSHIP: - DISTRICT: THUNDER BAY

LAT/LONG: 4908/8914

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ > .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER | 6 | 0.07 | 0.05- | 0.11 | 28.0 | 18.5- | 42.5 | 371 | 70- | 1000 | 0.0 |
| WHITEFISH * | 6 | 0.15 | 0.10- | 0.24 | 26.6 | 22.5- | 32.5 | 146 | 70- | 235 | 0.0 |
| Y. PERCH * | 20 | 0.35 | 0.12- | 0.95 | 22.9 | 15.5- | 31.5 | 166 | 50- | 500 | 20.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | A | A | A | A | A | - | - | - | - |
| Y. PERCH | A | A | A | B | B | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HC AT STD. |
|-----------|----------|---------|-------|---------|------------|
| WHITEFISH | 0.000305 | 1.88419 | 0.893 | 0 | 0.00 |
| Y. PERCH | 0.000157 | 2.42675 | 0.841 | 0 | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MAX LAKE, 1977

TOWNSHIP: -

DISTRICT: THUNDER BAY

LAT/LONG: 4909/8923

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | >= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER * | 6 | 0.08 | 0.04- | 0.16 | 38.9 | 28.0- | 50.0 | 832 | 250- | 1500 | 0.0 |
| PIKE * | 14 | 0.45 | 0.15- | 1.00 | 54.9 | 36.0- | 67.0 | 1034 | 200- | 1750 | 42.9 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | - | A | A | A | A | A | - | - | - |
| PIKE | - | - | - | - | A | A | A | B | B | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + A_1 L$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|-----------|----------|---------|-------|---------|------------|
| W. SUCKER | 0.000014 | 2.31681 | 0.926 | 0 | 0.00 |
| PIKE | 0.000069 | 2.17413 | 0.716 | 60 | 0.50 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MAYNARD LAKE, 1976

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5022/9354

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 29 | 0.07 | 0.01- | 0.17 | 35.3 | 26.0- | 45.0 | 656 | 230- | 1360 | 0.0 |
| PIKE | * 38 | 0.74 | 0.17- | 2.00 | 55.3 | 36.0- | 85.0 | 1441 | 300- | 4520 | 81.6 |
| WALLEYE | * 54 | 0.42 | 0.13- | 1.30 | 32.7 | 16.5- | 47.0 | 409 | 60- | 1240 | 22.2 |
| MOONEYE | 10 | 0.32 | 0.09- | 1.30 | 28.2 | 26.0- | 30.0 | 318 | 275- | 410 | 10.0 |
| W. SUCKER | * 10 | 0.06 | 0.01- | 0.10 | 29.6 | 21.0- | 39.0 | 447 | 155- | 910 | 0.0 |
| SAUGER | * 10 | 0.57 | 0.31- | 0.97 | 29.6 | 26.0- | 35.0 | 234 | 180- | 390 | 50.0 |
| BURBOT | * 6 | 0.29 | 0.09- | 0.68 | 43.1 | 27.0- | 70.0 | 835 | 140- | 2340 | 33.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | B | B | C | D |
| WALLEYE | A | A | A | A | A | B | B | - | - | - |
| W. SUCKER | - | A | A | A | A | A | - | - | - | - |
| SAUGER | - | - | A | B | C | D | - | - | - | - |
| BURBOT | - | - | A | A | A | A | A | B | B | C |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000534 | 1.78627 | 0.807 | 60 | | 0.80 |
| WALLEYE | 0.005083 | 1.24698 | 0.628 | 50 | | 0.67 |
| W. SUCKER | 0.000001 | 3.31022 | 0.740 | 0 | | 0.00 |
| SAUGER | 0.000006 | 3.38271 | 0.749 | 0 | | 0.00 |
| BURBOT | 0.000099 | 2.06738 | 0.934 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MEANDERING LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5007/9354

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | >= .5 PPM |
|-----------|------|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 48 | 1.02 | 0.33- 2.30 | 62.4 | 41.0- 91.5 | 1963 | 390- 6115 | 93.8 |
| WALLEYE | * 45 | 1.09 | 0.40- 2.30 | 49.4 | 40.0- 67.0 | 1417 | 815- 3630 | 93.3 |
| W. SUCKER | * 20 | 0.23 | 0.06- 0.80 | 43.3 | 37.0- 48.0 | 1257 | 795- 1870 | 5.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | B | B | C | C | C |
| WALLEYE | - | - | - | - | - | B | C | D | D | - |
| W. SUCKER | - | - | - | - | A | A | B | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.003875 | 1.33207 | 0.452 | 60 | | 0.91 |
| WALLEYE | 0.000049 | 2.55280 | 0.725 | 50 | | 1.07 |
| W. SUCKER | 0.000000 | 5.16406 | 0.534 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MEGGISI LAKE, 1977
 TOWNSHIP: - DISTRICT: RAINY RIVER LAT/LONG: 4917/9236
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|----------|---|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | 8 | 0.55 | 0.45- 0.86 | 42.9 | 40.0- 47.5 | 937 | 780- 1200 | 37.5 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: MOSE LAKE, 1975

TOWNSHIP: GEMMELL

DISTRICT: THUNDER BAY

LAT/LONG: 4909/8545

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | 12 | 0.07 | 0.03- | 0.13 | 15.4 | 5.0- | 19.0 | 65 | 38- | 85 | 0.0 |
| W. SUCKER | 20 | 0.05 | 0.01- | 0.17 | 35.3 | 22.0- | 48.0 | 565 | 128- | 1163 | 0.0 |
| WALLEYE * | 18 | 0.26 | 0.07- | 0.58 | 40.0 | 27.0- | 51.5 | 698 | 184- | 1249 | 11.1 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | A | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000086 | 2.14446 | 0.707 | 50 | | 0.38 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: NABIMINA LAKE, 1977
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5214/9208
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|-----|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 10 | 0.23 | 0.09- | 0.39 | 43.5 | 33.0- | 52.0 | 574 | 225- | 900 | 0.0 |
| WALLEYE | 10 | 0.60 | 0.30- | 0.82 | 41.8 | 39.0- | 45.0 | 788 | 450- | 900 | 80.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | A | A | A | A | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000008 | 2.69767 | 0.818 | 60 | | 0.52 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: NAMAKAN LAKE, 1976
 TOWNSHIP: - DISTRICT: RAINY RIVER LAT/LONG: 4827/9235
 DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 27 | 0.70 | 0.33- 1.65 | 57.8 | 50.0- 75.0 | 1477 | 970- 3315 | 81.5 |
| WALLEYE | 27 | 0.67 | 0.39- 1.45 | 40.9 | 36.0- 47.0 | 834 | 595- 1360 | 81.5 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | B | C | C |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000470 | 1.78721 | 0.437 | 60 | | 0.71 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OAK LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5026/9350

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 24 | 0.11 | 0.05- | 0.17 | 39.8 | 35.5- | 46.0 | 842 | 620- | 1300 | 0.0 |
| PIKE | * 20 | 0.53 | 0.27- | 1.34 | 57.9 | 52.5- | 69.0 | 1351 | 880- | 2410 | 55.0 |
| WALLEYE | * 28 | 0.42 | 0.11- | 0.86 | 40.3 | 32.0- | 52.0 | 843 | 490- | 1600 | 17.9 |
| CISCO | * 42 | 0.10 | 0.01- | 0.28 | 33.9 | 30.5- | 39.5 | 529 | 380- | 830 | 0.0 |
| MOONEYE | 33 | 0.16 | 0.10- | 0.28 | 31.0 | 29.0- | 33.5 | 392 | 330- | 550 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | - | A | B | C | - |
| WALLEYE | - | - | - | A | A | B | B | C | - | - |
| CISCO | - | - | - | A | A | A | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000004 | 2.89270 | 0.582 | 60 | | 0.56 |
| WALLEYE | 0.000294 | 1.94777 | 0.458 | 50 | | 0.60 |
| CISCO | 0.000000 | 5.66297 | 0.346 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OAK LAKE, 1971

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5026/9350

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|-------|---------------|-------|------|--------------|-------|------|--------------|-------|-------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 224 | 0.53 | 0.13- | 1.40 | 58.4 | 36.8- | 96.5 | 1701 | 340- | 748.3 | 50.0 |
| WALLEYE | * 226 | 0.39 | 0.03- | 1.07 | 38.4 | 24.1- | 50.8 | 742 | 170- | 1701 | 21.2 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | B | B |
| WALLEYE | - | - | A | A | A | A | B | B | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000553 | 1.67201 | 0.672 | 60 | | 0.52 |
| WALLEYE | 0.006565 | 1.10466 | 0.419 | 50 | | 0.49 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OPINNAGAU RIVER, 1977

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5412/8225

DATA SOURCE: NCE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | >= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 16 | 0.42 | 0.15- | 0.78 | 71.1 | 54.0- | 92.0 | 2438 | 1200- | 4300 | 31.3 |
| WHITEFISH | * 13 | 0.07 | 0.03- | 0.10 | 37.6 | 22.0- | 44.0 | 898 | 200- | 1750 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | - | A | A | A | B |
| WHITEFISH | - | A | A | A | A | A | A | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000190 | 1.79094 | 0.600 | 60 | | 0.29 |
| WHITEFISH | 0.000132 | 1.70945 | 0.883 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: OSKAWA LAKE, 1977

TOWNSHIP: -

DISTRICT : THUNDER BAY

LAT/LONG: 4921/8823

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM) | | WEIGHT (G) | | >= .5 PPM |
|---------|------|---------------|------------|-------------|------------|------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 41 | 0.59 | 0.23- 1.00 | 55.5 | 40.0- 65.5 | 1198 | 400- 1950 | 65.9 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | B | C | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000029 | 2.45717 | 0.770 | 60 | | 0.67 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PAGUCHI LAKE, 1976

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 4934/9132

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 31 | 0.06 | 0.02- | 0.12 | 40.9 | 37.0- | 44.0 | 827 | 600- | 1060 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PAKASHKAN LAKE, 1977

TOWNSHIP: -

DISTRICT: THUNDER BAY

LAT/LONG: 4921/9015

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|-------|--------------|-------|-------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.27 | 0.07- | 1.00 | 58.5 | 35.5- | 105.0 | 1840 | 500- | 10000 | 13.3 |
| Y. PERCH | 15 | 0.05 | 0.03- | 0.07 | 15.1 | 13.5- | 19.0 | 101 | 96- | 110 | 0.0 |
| WALLEYE | * 15 | 0.22 | 0.12- | 0.44 | 36.7 | 22.0- | 50.5 | 666 | 240- | 1500 | 0.0 |
| WHITEFISH | 6 | 0.09 | 0.06- | 0.12 | 44.2 | 38.0- | 50.0 | 1042 | 750- | 1500 | 0.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | A | A | B |
| WALLEYE | - | A | A | A | A | A | A | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| PIKE | 0.000005 | 2.61602 | 0.849 | 60 | 0.22 |
| WALLEYE | 0.001525 | 1.36263 | 0.837 | 50 | 0.31 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PETERSEN LAKE, 1977

TOWNSHIP: HEYSON DISTRICT : KENORA

LAT/LONG: 5101/9420

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ > .5 PPM | |
|----------|---|---------------|-------|-------|--------------|-------|-------|--------------|-------|--------|---------------|-------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | | |
| PIKE | * | 7 | 0.62 | 0.24- | 0.95 | 54.3 | 43.3- | 61.3 | 8.04 | 3.38- | 101.3 | 85.7 |
| L. TROUT | | 3 | 0.79 | 0.56- | 0.93 | 57.3 | 50.0- | 61.3 | 15.38 | 101.3- | 1800 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | E | C | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000001 | 3.49294 | 0.937 | 60 | | 0.84 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PICKEREL LAKE, 1977
 TOWNSHIP: GIDLEY DISTRICT: KENORA LAT/LONG: 4948/9452
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 15 | 0.99 | 0.46- 1.60 | 51.2 | 35.0- 60.0 | 1505 | 567- 2043 | 80.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | A | B | C | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000299 | 2.04701 | 0.843 | 50 | | 0.90 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PICKLE LAKE, 1976

TOWNSHIP: PONSFORD DISTRICT: KENORA

LAT/LONC: 5128/9015

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 3 | 0.38 | 0.30- | 0.45 | 51.2 | 48.5- | 53.0 | 836 | 672- | 1030 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PICKLE LAKE, 1975

TOWNSHIP: PONSFORD
 DATA SOURCE: MOE

DISTRICT: KENORA

LAT/LONG: 5128/9015

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 3 | 0.39 | 0.23- | 0.69 | 54.7 | 50.0- | 60.0 | 973 | 737- | 1134 | 33.3 |
| W. SUCKER | 7 | 0.08 | 0.05- | 0.11 | 31.7 | 29.0- | 34.0 | 401 | 340- | 567 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PISTOL LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5000/9443

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH * | 46 | 0.09 | 0.03- | 0.27 | 49.4 | 41.0- | 58.0 | 1961 | 960- | 3540 | 0.0 |
| PIKE * | 56 | 0.89 | 0.48- | 1.44 | 69.6 | 54.0- | 93.0 | 2893 | 1160- | 6030 | 96.4 |
| WALLEYE * | 18 | 0.92 | 0.42- | 1.84 | 56.4 | 39.0- | 69.0 | 2441 | 595- | 4230 | 94.4 |
| CISCO | 53 | 0.31 | 0.13- | 0.72 | 41.2 | 38.0- | 49.0 | 1086 | 785- | 1980 | 3.8 |
| BURBOT | 1 | 0.47 | - | - | 57.0 | - | - | 1815 | - | - | - |
| W. SUCKER | 10 | 0.15 | 0.09- | 0.23 | 44.6 | 41.0- | 47.5 | 1550 | 1160- | 2015 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | - | - | A | A | A | - | - |
| PIKE | - | - | - | - | - | - | B | B | B | C |
| WALLEYE | - | - | - | - | A | B | B | C | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000014 | 2.23110 | 0.477 | 0 | | 0.00 |
| PIKE | 0.021122 | 0.87305 | 0.313 | 60 | | 0.75 |
| WALLEYE | 0.000110 | 2.22898 | 0.905 | 50 | | 0.67 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PONSFORD LAKE, 1976

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5130/9020

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER | 12 | 0.14 | 0.07- | 0.25 | 42.7 | 37.0- | 47.0 | 1031 | 770- | 1316 | 0.0 |
| PIKE | 6 | 0.22 | 0.13- | 0.27 | 49.7 | 42.0- | 54.0 | 825 | 480- | 1195 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: PRINGLE LAKE, 1977
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5132/9328
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 10 | 0.63 | 0.20- 1.20 | 59.5 | 41.5- 68.0 | 1189 | 341- 2270 | 70.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | B | C | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000034 | 2.38915 | 0.706 | 60 | | 0.60 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RAINY LAKE, 1977

TOWNSHIP: -

DISTRICT: RAINY RIVER

LAT/LONG: 48 38/92 55

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % ≥ 0.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 50 | 0.88 | 0.44- | 1.50 | 67.5 | 55.8- | 85.0 | 1892 | 1100- | 3140 | 96.0 |
| WALLEYE | 21 | 0.59 | 0.26- | 1.70 | 41.6 | 34.3- | 55.0 | 925 | 440- | 1810 | 52.4 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | - | B | B | C | C |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000804 | 1.65388 | 0.562 | 60 | | 0.70 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RAINY LAKE, 1976
TOWNSHIP: SOUTH ARM DISTRICT: RAINY RIVER LAT/LONG: 48 38/9 315
DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 0.63 | 0.14- | 1.61 | 58.8 | 49.9- | 84.5 | 1720 | 1110- | 4220 | 46.7 |
| WALLEYE | * 71 | 0.64 | 0.11- | 1.42 | 43.1 | 35.0- | 61.0 | 1039 | 590- | 2640 | 67.6 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | B | C | D |
| WALLEYE | - | - | - | - | A | B | C | D | D | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000001 | 3.25568 | 0.681 | 60 | | 0.55 |
| WALLEYE | 0.000025 | 2.67330 | 0.573 | 50 | | 0.86 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RAINY RIVER, 1977
 TOWNSHIP: BAUDETTE DISTRICT: RAINY RIVER LAT/LONG: 4843/9429
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 21 | 0.22 | 0.13- 0.31 | 38.9 | 30.4- 45.0 | 582 | 312- 880 | 0.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.003538 | 1.12154 | 0.476 | 50 | 0.28 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RAINY RIVER, 1977
TOWNSHIP: FORT FRANCES DISTRICT: RAINY RIVER LAT/LONG: 48 36/9 324
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|---|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 6 | 0.29 | 0.15- | 0.46 | 37.7 | 27.5- | 42.0 | 483 | 199- | 653 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RAINY RIVER, 1977

TOWNSHIP: LONG SAULT RPS DISTRICT: RAINY RIVER

LAT/LONG: 48 39/94 04

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 35 | 0.24 | 0.10- | 0.61 | 37.4 | 23.2- | 47.0 | 517 | 85- | 1022 | 5.7 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RED LAKE, 1977

TOWNSHIP: DOME

DATA SOURCE: MOE

DISTRICT: KENORA

LAT/LONG: 5103/9349

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 18 | 0.36 | 0.14- 1.10 | 38.1 | 21.0- 52.5 | 596 | 85- 1362 | 22.2 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | A | A | A | A | A | B | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| WALLEYE | 0.001000 | 1.58790 | 0.775 | 50 | 0.50 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: RETA LAKE, 1977

TOWNSHIP: -

DISTRICT: THUNDER BAY

LAT/LONG: 4815/9029

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 22 | 0.63 | 0.29- 1.30 | 49.3 | 37.0- 72.0 | 1083 | 310- 3500 | 59.1 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | B | C | D | D |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000081 | 2.27984 | 0.825 | 60 | | 0.91 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ROUGH ROCK LAKE, 1975
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5006/9446
DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 50 | 0.77 | 0.24- | 1.60 | 61.1 | 44.5- | 84.0 | 2000 | 590- | 5160 | 72.0 |
| W. SUCKER | * 79 | 0.31 | 0.07- | 0.57 | 42.7 | 36.0- | 48.5 | 1198 | 615- | 1890 | 5.1 |
| SAUGER | 1 | 0.20 | - | - | 20.0 | - | - | 70 | - | - | - |
| WHITEFISH | 1 | 0.22 | - | - | 59.0 | - | - | 3290 | - | - | - |
| WALLEYE | * 49 | 0.86 | 0.28- | 2.00 | 47.8 | 28.5- | 65.0 | 1389 | 235- | 3260 | 83.7 |
| CISCO | 8 | 0.14 | 0.09- | 0.18 | 25.3 | 15.5- | 38.0 | 261 | 35- | 880 | 0.0 |
| Y. PERCH | 7 | 0.27 | 0.16- | 0.38 | 22.4 | 20.0- | 24.5 | 166 | 125- | 210 | 0.0 |
| BURBOT | 3 | 0.39 | 0.23- | 0.49 | 55.7 | 53.0- | 59.0 | 1508 | 1020- | 2270 | 0.0 |
| R. BASS | 1 | 0.33 | - | - | 19.0 | - | - | 170 | - | - | - |
| S.M. BASS | 4 | 1.04 | 0.98- | 1.20 | 35.0 | 33.5- | 36.0 | 796 | 680- | 910 | 100.0 |
| MOONEYE | 2 | 0.23 | 0.22- | 0.24 | 34.5 | 33.0- | 36.0 | 565 | 505- | 625 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | B | C | D |
| W. SUCKER | - | - | - | - | A | A | C | - | - | - |
| WALLEYE | - | - | - | A | A | B | C | D | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000009 | 2.73805 | 0.846 | 60 | | 0.67 |
| W. SUCKER | 0.000000 | 4.87762 | 0.535 | 0 | | 0.00 |
| WALLEYE | 0.000057 | 2.46838 | 0.744 | 50 | | 0.89 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: ROUTINE LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: -

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 2 | 0.18 | 0.16- | 0.20 | 47.0 | 46.5- | 47.5 | 1665 | 1550- | 1780 | 0.0 |
| WALLEYE | * 48 | 0.89 | 0.42- | 1.50 | 43.5 | 21.0- | 62.0 | 1029 | 90- | 3000 | 91.7 |
| CISCO | 25 | 0.24 | 0.19- | 0.31 | 26.5 | 23.0- | 29.5 | 276 | 180- | 370 | 0.0 |
| Y. PERCH | 3 | 0.14 | 0.14- | 0.15 | 19.8 | 19.5- | 20.0 | 128 | 125- | 130 | 0.0 |
| S.M. BASS | * 11 | 0.60 | 0.31- | 1.20 | 36.1 | 32.5- | 44.5 | 903 | 630- | 1680 | 63.6 |
| PIKE | * 28 | 0.85 | 0.32- | 2.30 | 59.3 | 38.0- | 83.5 | 1929 | 370- | 4680 | 71.4 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | A | A | B | B | B | C | C | D | - |
| S.M. BASS | - | - | - | A | B | C | D | - | - | - |
| PIKE | - | - | - | - | A | A | B | B | C | D |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.007355 | 1.26531 | 0.853 | 50 | | 1.04 |
| S.M. BASS | 0.000075 | 2.49376 | 0.769 | 0 | | 0.00 |
| PIKE | 0.000265 | 1.95113 | 0.848 | 60 | | 0.78 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ST. JOSEPH, 1976
TOWNSHIP: - DISTRICT: THUNDER BAY LAT/LONG: 5105/9035
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER * | 8 | 0.12 | 0.06- | 0.25 | 43.6 | 37.0- | 51.0 | 947 | 543- | 1264 | 0.0 |
| WALLEYE | 17 | 0.22 | 0.10- | 0.75 | 35.1 | 26.0- | 47.0 | 410 | 156- | 957 | 11.8 |
| CISCO | 1 | 0.07 | - | - | 29.5 | - | - | 269 | - | - | - |
| PIKE * | 5 | 0.36 | 0.19- | 0.77 | 50.5 | 43.0- | 58.0 | 799 | 461- | 1306 | 20.0 |
| WHITEFISH | 1 | 0.05 | - | - | 32.5 | - | - | 334 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | - | - | - | A | A | A | A | - | - |
| PIKE | - | - | - | - | - | A | A | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| W. SUCKER | 0.000000 | 3.27233 | 0.792 | 0 | | 0.00 |
| PIKE | 0.000000 | 3.53321 | 0.864 | 60 | | 0.59 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SAND LAKE, 1977

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5005/94 39

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 30 | 0.47 | 0.28- | 0.96 | 52.6 | 41.0- | 70.5 | 866 | 363- | 2043 | 36.7 |
| WALLEYE | * 30 | 0.73 | 0.25- | 1.40 | 39.9 | 25.0- | 61.0 | 800 | 181- | 2270 | 60.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | B | B | C | D |
| WALLEYE | - | - | A | A | B | B | B | C | C | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000015 | 2.59720 | 0.764 | 60 | | 0.62 |
| WALLEYE | 0.010828 | 1.11310 | 0.547 | 50 | | 0.84 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SAND LAKE, 1976

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5005/94 39

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 27 | 0.55 | 0.21- | 1.20 | 58.4 | 40.5- | 81.0 | 1867 | 475- | 4800 | 59.3 |
| W. SUCKER | * 10 | 0.11 | 0.03- | 0.35 | 33.5 | 25.0- | 45.0 | 544 | 210- | 1225 | 0.0 |
| BURBOT | 3 | 0.23 | 0.07- | 0.34 | 47.3 | 44.5- | 50.0 | 827 | 600- | 1100 | 0.0 |
| R. BASS | 2 | 0.21 | 0.20- | 0.21 | 18.5 | 17.0- | 20.0 | 163 | 125- | 200 | 0.0 |
| Y. PERCH | * 10 | 0.22 | 0.10- | 0.46 | 22.5 | 17.0- | 25.5 | 181 | 75- | 250 | 0.0 |
| SAUGER | * 9 | 0.78 | 0.44- | 1.80 | 27.8 | 22.5- | 33.0 | 210 | 100- | 340 | 66.7 |
| WALLEYE | * 37 | 0.44 | 0.14- | 1.10 | 33.9 | 21.0- | 51.0 | 539 | 95- | 1610 | 32.4 |
| S.M. BASS | * 6 | 0.43 | 0.14- | 0.71 | 28.5 | 19.5- | 35.0 | 538 | 120- | 915 | 50.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | B | B | C |
| W. SUCKER | - | - | A | A | A | A | A | - | - | - |
| Y. PERCH | - | A | A | B | B | - | - | - | - | - |
| SAUGER | - | A | B | B | C | D | - | - | - | - |
| WALLEYE | - | A | A | A | A | B | B | C | - | - |
| S.M. BASS | - | A | A | A | B | C | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + A_1 L$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000327 | 1.80477 | 0.777 | 60 | | 0.53 |
| W. SUCKER | 0.000002 | 3.04973 | 0.771 | 0 | | 0.00 |
| Y. PERCH | 0.000005 | 3.41933 | 0.713 | 0 | | 0.00 |
| SAUGER | 0.000041 | 2.93599 | 0.782 | 0 | | 0.00 |
| WALLEYE | 0.001096 | 1.66292 | 0.767 | 50 | | 0.73 |
| S.M. BASS | 0.000113 | 2.43183 | 0.968 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SAND LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5005/94 39

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|------------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| CISCO | * 26 | 0.22 | 0.08- | 0.55 | 34.7 | 16.5- | 45.5 | 682 | 75- | 1300 | 3.8 |
| WHITEFISH | 8 | 0.08 | 0.06- | 0.12 | 31.1 | 26.5- | 34.0 | 328 | 230- | 405 | 0.0 |
| W. SUCKER | * 40 | 0.32 | 0.06- | 0.67 | 42.9 | 24.5- | 51.0 | 1165 | 160- | 1900 | 12.5 |
| B. CRAPPIE | 2 | 0.31 | 0.20- | 0.42 | 29.5 | 27.5- | 31.5 | 473 | 370- | 575 | 0.0 |
| PIKE | * 21 | 1.08 | 0.19- | 2.76 | 73.2 | 30.0- | 95.9 | 3280 | 175- | 8250 | 85.7 |
| WALLEYE | * 50 | 0.77 | 0.20- | 2.06 | 51.5 | 19.0- | 70.0 | 1589 | 60- | 3650 | 88.0 |
| SAUGER | 1 | 0.96 | - | - | 31.1 | - | - | 260 | - | - | - |
| Y. PERCH | * 44 | 0.19 | 0.11- | 0.55 | 17.8 | 13.0- | 25.2 | 95 | 30- | 240 | 4.5 |
| MUSKIE | 1 | 3.15 | - | - | 105.5 | - | - | 8750 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| CISCO | A | A | A | A | A | A | A | - | - | - |
| W. SUCKER | - | - | A | A | A | A | B | C | - | - |
| PIKE | - | - | - | A | A | A | B | B | C | C |
| WALLEYE | - | A | A | A | A | B | B | B | C | C |
| Y. PERCH | A | A | A | A | B | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| CISCO | 0.009266 | 0.87743 | 0.649 | 0 | | 0.00 |
| W. SUCKER | 0.000001 | 3.32401 | 0.718 | 0 | | 0.00 |
| PIKE | 0.000285 | 1.88671 | 0.730 | 60 | | 0.65 |
| WALLEYE | 0.006515 | 1.19987 | 0.754 | 50 | | 0.71 |
| Y. PERCH | 0.002221 | 1.53257 | 0.793 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SAND LAKE, 1974

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5005/94 39

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 51 | 0.69 | 0.25- 2.26 | 61.1 | 49.5- 95.3 | 2005 | 907- 7965 | 66.7 |
| WALLEYE | * 48 | 0.59 | 0.31- 1.86 | 47.1 | 39.4- 64.8 | 1366 | 709- 3628 | 50.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | B | C | D |
| WALLEYE | - | - | - | - | A | B | B | C | C | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000010 | 2.67686 | 0.744 | 60 | | 0.60 |
| WALLEYE | 0.000260 | 1.98684 | 0.523 | 50 | | 0.62 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SANTOY LAKE, 1977

TOWNSHIP: TP 81

DISTRICT: THUNDER BAY

LAT/LONG: 4852/8653

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 18 | 1.30 | 0.50- | 2.70 | 66.1 | 48.5- | 82.5 | 1817 | 737- | 3430 | 100.0 |
| WHITEFISH | 17 | 0.26 | 0.08- | 0.60 | 41.2 | 24.0- | 55.0 | 724 | 113- | 1559 | 11.8 |
| WALLEYE | 1 | 1.70 | - | - | 35.5 | - | - | 369 | - | - | - |
| W. SUCKER | 12 | 0.27 | 0.17- | 0.50 | 45.4 | 38.5- | 52.0 | 1084 | 539- | 1673 | 8.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | B | B | C | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000760 | 1.76459 | 0.711 | 60 | | 1.04 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SAVOY LAKE, 1976

TOWNSHIP: CHARTRAND

DISTRICT: KENORA

LAT/LONG: 4918/9058

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 17 | 0.24 | 0.09- | 0.52 | 45.6 | 35.0- | 59.0 | 753 | 350- | 1730 | 5.9 |
| WALLEYE | * 61 | 0.13 | 0.01- | 0.24 | 24.4 | 14.0- | 42.0 | 181 | 25- | 760 | 0.0 |
| R. BASS | 1 | 0.12 | - | - | 19.0 | - | - | 150 | - | - | - |
| R.H. SUCKER | 3 | 0.30 | 0.12- | 0.40 | 37.7 | 35.0- | 42.0 | 775 | 640- | 995 | 0.0 |
| W. SUCKER | * 19 | 0.13 | 0.03- | 0.39 | 40.9 | 30.0- | 50.5 | 992 | 395- | 2065 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | - | - |
| WALLEYE | A | A | A | A | A | A | A | - | - | - |
| W. SUCKER | - | - | - | A | A | A | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000006 | 2.74397 | 0.824 | 60 | | 0.48 |
| WALLEYE | 0.002009 | 1.29969 | 0.728 | 50 | | 0.32 |
| W. SUCKER | 0.000000 | 5.53068 | 0.818 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SEPARATION LAKE, 1977

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5014/9424

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 24 | 2.47 | 0.75- | 5.00 | 59.1 | 48.5- | 73.0 | 1172 | 405- | 2270 | 100.0 |
| WALLEYE | 30 | 2.82 | 0.79- | 8.60 | 43.2 | 34.5- | 60.0 | 764 | 167- | 2152 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | C | D | D | D | D |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.001012 | 1.89048 | 0.474 | 60 | | 2.33 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SEPARATION LAKE, 1976

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5014/9424

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-------------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| R.H.SUCKER* | 10 | 1.56 | 0.56- | 3.10 | 45.4 | 36.0- | 52.0 | 1286 | 700- | 1780 | 100.0 |
| PIKE | * 30 | 2.68 | 0.80- | 8.50 | 52.9 | 34.5- | 91.0 | 1399 | 280- | 7245 | 100.0 |
| MOONEYE | * 18 | 0.75 | 0.35- | 1.40 | 29.4 | 23.0- | 34.0 | 377 | 175- | 640 | 83.3 |
| WALLEYE | * 39 | 2.11 | 0.79- | 4.10 | 38.8 | 27.0- | 50.0 | 671 | 205- | 1360 | 100.0 |
| WHITEFISH | 6 | 0.41 | 0.25- | 0.83 | 35.8 | 30.0- | 46.0 | 701 | 375- | 1500 | 16.7 |
| CISCO | * 10 | 0.40 | 0.27- | 0.64 | 25.0 | 16.0- | 36.0 | 346 | 50- | 875 | 20.0 |
| W. SUCKER | 9 | 0.49 | 0.36- | 0.79 | 36.2 | 29.0- | 44.0 | 741 | 305- | 1440 | 22.2 |
| BURBOT | 6 | 0.69 | 0.32- | 1.20 | 46.4 | 34.5- | 57.0 | 678 | 260- | 1310 | 66.7 |
| SAUGER | * 22 | 2.57 | 1.20- | 5.10 | 30.0 | 22.5- | 36.0 | 256 | 120- | 405 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| R.H.SUCKER | - | - | - | - | B | C | D | D | - | - |
| PIKE | - | - | - | - | B | D | D | D | D | D |
| MOONEYE | - | - | A | B | C | D | - | - | - | - |
| WALLEYE | - | - | C | C | D | D | D | - | - | - |
| CISCO | A | A | A | A | A | B | - | - | - | - |
| SAUGER | - | C | D | D | D | D | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|------------|----------|---------|-------|----------|----|---------|
| R.H.SUCKER | 0.000004 | 3.35956 | 0.707 | 0 | | 0.00 |
| PIKE | 0.000305 | 2.25520 | 0.897 | 60 | | 3.12 |
| MOONEYE | 0.000004 | 3.59645 | 0.842 | 0 | | 0.00 |
| WALLEYE | 0.016681 | 1.31156 | 0.653 | 50 | | 2.82 |
| CISCO | 0.058231 | 0.59163 | 0.652 | 0 | | 0.00 |
| SAUGER | 0.002024 | 2.08918 | 0.798 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SEPARATION LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5014/9424

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER * | 55 | 1.05 | 0.32- | 2.09 | 45.0 | 30.7- | 55.8 | 1119 | 350- | 1875 | 96.4 |
| R.H.SUCKER* | 11 | 1.19 | 0.58- | 2.83 | 46.5 | 40.4- | 56.8 | 1246 | 885- | 2230 | 100.0 |
| PIKE * | 29 | 2.84 | 0.91- | 5.89 | 58.5 | 36.6- | 81.3 | 1283 | 400- | 3820 | 100.0 |
| WHITEFISH * | 19 | 0.55 | 0.32- | 0.82 | 44.5 | 32.5- | 56.0 | 1038 | 390- | 2010 | 52.6 |
| WALLEYE * | 51 | 2.99 | 1.18- | 4.58 | 44.5 | 24.5- | 55.0 | 885 | 160- | 1550 | 100.0 |
| SAUGER | 5 | 3.18 | 2.33- | 4.33 | 36.1 | 35.2- | 38.5 | 373 | 305- | 465 | 100.0 |
| MOONEYE * | 20 | 1.21 | 0.42- | 4.27 | 33.5 | 26.3- | 38.7 | 420 | 200- | 630 | 85.0 |
| CISCO | 14 | 0.60 | 0.26- | 1.01 | 39.1 | 26.0- | 45.6 | 828 | 510- | 1450 | 85.7 |
| S.M. BASS | 4 | 1.35 | 0.92- | 1.77 | 31.1 | 24.5- | 35.6 | 525 | 220- | 720 | 100.0 |
| BURBOT | 3 | 1.82 | 0.89- | 3.55 | 52.8 | 45.8- | 62.0 | 892 | 550- | 1165 | 100.0 |
| Y. PERCH | 1 | 0.92 | - | - | 24.2 | - | - | 225 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | - | - | A | B | C | D | D | - | - |
| R.H. SUCKER | - | - | - | - | - | C | D | D | - | - |
| PIKE | - | - | - | - | C | D | D | D | D | D |
| WHITEFISH | - | - | - | A | A | B | B | B | - | - |
| WALLEYE | - | - | C | C | D | D | D | D | - | - |
| MOONEYE | - | - | A | B | C | D | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-------------|----------|---------|-------|----------|----|---------|
| W. SUCKER | 0.000071 | 2.50911 | 0.704 | 0 | | 0.00 |
| R.H. SUCKER | 0.000002 | 3.49624 | 0.816 | 0 | | 0.00 |
| PIKE | 0.001436 | 1.84065 | 0.691 | 60 | | 2.69 |
| WHITEFISH | 0.001660 | 1.52287 | 0.741 | 0 | | 0.00 |
| WALLEYE | 0.003872 | 1.74270 | 0.760 | 50 | | 3.54 |
| MOONEYE | 0.000003 | 3.68097 | 0.679 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SEPARATION LAKE, 1974
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5014/9424
DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| S.M. BASS | 4 | 1.95 | 1.71- | 2.34 | 35.9 | 33.0- | 38.1 | 780 | 595- | 964 | 100.0 |
| R. BASS | 1 | 1.95 | - | - | 21.6 | - | - | 284 | - | - | - |
| CISCO | 2 | 0.61 | 0.53- | 0.68 | 37.5 | 35.6- | 39.4 | 851 | 567- | 1134 | 100.0 |
| WALLEYE | * 50 | 2.77 | 0.76- | 4.51 | 44.4 | 36.8- | 58.4 | 1019 | 652- | 2183 | 100.0 |
| PIKE | 50 | 2.96 | 0.81- | 6.52 | 62.1 | 41.9- | 80.0 | 1794 | 510- | 3968 | 100.0 |
| WHITEFISH | 28 | 0.36 | 0.13- | 0.65 | 43.4 | 38.1- | 52.1 | 1409 | 794- | 2494 | 10.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | D | D | D | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000654 | 2.18739 | 0.582 | 50 | | 3.41 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SETTING NET LAKE, 1977

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5247/9336

DATA SOURCE: HOL

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 10 | 0.54 | 0.23- 0.79 | 40.9 | 33.0- 48.0 | 410 | 120- 680 | 70.0 |
| PIKE | 3 | 0.72 | 0.62- 0.89 | 61.0 | 56.0- 66.0 | 1135 | 570- 1816 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | B | C | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000063 | 2.42745 | 0.719 | 50 | | 0.84 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SHACO LAKE, 1977
TOWNSHIP: - DISTRICT: THUNDER BAY LAT/LONG: 4815/9032
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 14 | 0.84 | 0.25- 2.40 | 40.9 | 25.0- 62.0 | 661 | 90- 2100 | 64.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | A | A | B | B | C | C | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.003024 | 1.47763 | 0.749 | 60 | | 1.28 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SILCOX LAKE, 1977

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5145/9322

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 10 | 0.30 | 0.12- | 0.50 | 44.5 | 42.0- | 49.8 | 743 | 450- | 900 | 10.0 |
| PIKE | 6 | 0.23 | 0.13- | 0.51 | 55.2 | 50.0- | 63.8 | 938 | 675- | 1575 | 16.7 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SNIB LAKE, 1977

TOWNSHIP: HEYSON

DISTRICT: KENORA

LAT/LONG: 5100/9353

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | $\bar{x} \geq .5$ PPM |
|---------|---|---------------|------------|--------------|------------|--------------|-----------|--------------------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | 5 | 0.55 | 0.16- 1.30 | 55.2 | 45.0- 61.0 | 1005 | 483- 1249 | 40.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SNOOK LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5012/9441

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 42 | 0.70 | 0.24- | 1.11 | 62.1 | 39.5- | 82.5 | 1690 | 365- | 3815 | 78.6 |
| L. TROUT | * 48 | 0.76 | 0.35- | 2.33 | 53.2 | 32.2- | 71.5 | 1295 | 200- | 3350 | 87.5 |
| CISCO | * 21 | 0.27 | 0.16- | 0.37 | 18.9 | 17.0- | 22.6 | 41 | 30- | 80 | 0.0 |
| W. SUCKER | * 25 | 0.24 | 0.08- | 0.51 | 45.4 | 27.3- | 52.5 | 1212 | 200- | 1820 | 4.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | B | B | C | C |
| L. TROUT | - | - | - | A | A | B | B | B | C | C |
| CISCO | - | A | B | - | - | - | - | - | - | - |
| W. SUCKER | - | - | A | A | A | A | A | B | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + A_1 L$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000146 | 2.04259 | 0.822 | 60 | | 0.62 |
| L. TROUT | 0.004374 | 1.28648 | 0.568 | 60 | | 0.85 |
| CISCO | 0.000069 | 2.80718 | 0.682 | 0 | | 0.00 |
| W. SUCKER | 0.000047 | 2.21637 | 0.742 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SNOWSHOE LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 50 34/9507

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 39 | 0.78 | 0.34- | 1.30 | 41.0 | 28.5- | 57.0 | 818 | 215- | 2020 | 84.6 |
| PIKE | * 38 | 0.92 | 0.36- | 1.50 | 61.8 | 38.0- | 83.5 | 1872 | 360- | 4350 | 84.2 |
| CISCO | 16 | 0.17 | 0.09- | 0.32 | 23.3 | 20.5- | 26.0 | 184 | 125- | 230 | 0.0 |
| WHITFI SH | 39 | 0.09 | 0.03- | 0.20 | 41.0 | 32.5- | 49.5 | 1135 | 500- | 1990 | 0.0 |
| BURBOT | * 19 | 0.51 | 0.30- | 0.74 | 62.4 | 49.0- | 78.5 | 1801 | 940- | 3280 | 52.6 |
| W. SUCKER | * 45 | 0.13 | 0.04- | 0.29 | 40.7 | 33.0- | 48.5 | 967 | 430- | 1625 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | E | B | B | C | C | - | - |
| PIKE | - | - | - | - | A | B | B | B | C | C |
| BURBOT | - | - | - | - | - | A | A | B | B | B |
| W. SUCKER | - | - | - | A | A | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.007495 | 1.24066 | 0.712 | 50 | | 0.96 |
| PIKE | 0.003203 | 1.36141 | 0.683 | 60 | | 0.84 |
| BURBOT | 0.000871 | 1.53625 | 0.772 | 0 | | 0.00 |
| W. SUCKER | 0.000000 | 3.56995 | 0.653 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: STURGEON LAKE, 1976

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5000/9045

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 4 | 0.55 | 0.17- | 0.91 | 57.8 | 41.5- | 79.0 | 1800 | 475- | 3750 | 50.0 |
| WALLEYE * | 31 | 0.26 | 0.13- | 0.98 | 34.8 | 28.5- | 58.5 | 479 | 220- | 2240 | 3.2 |
| R.H. SUCKER | 1 | 0.18 | - | - | 42.0 | - | - | 1180 | - | - | - |
| W. SUCKER * | 22 | 0.16 | 0.05- | 0.31 | 42.1 | 30.0- | 50.5 | 1104 | 370- | 1805 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | A | B | B | - | - |
| W. SUCKER | - | - | - | A | A | A | A | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000225 | 1.96466 | 0.760 | 50 | | 0.49 |
| W. SUCKER | 0.000070 | 2.03899 | 0.499 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SUMACH LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 50 35/9 358

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH * | 20 | 0.14 | 0.06- | 0.30 | 40.3 | 33.5- | 47.5 | 901 | 480- | 1515 | 0.0 |
| PIKE | 3 | 0.45 | 0.30- | 0.73 | 46.0 | 41.0- | 49.0 | 657 | 500- | 780 | 33.3 |
| WALLEYE * | 49 | 0.59 | 0.16- | 1.05 | 39.8 | 30.0- | 51.0 | 753 | 265- | 1360 | 61.2 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | A | A | A | A | - | - | - |
| WALLEYE | - | - | - | A | A | B | D | D | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000003 | 2.85610 | 0.739 | 0 | | 0.00 |
| WALLEYE | 0.000005 | 3.16858 | 0.832 | 50 | | 1.11 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SUP LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5017/9333

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | %>= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|------------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WHITEFISH * | 51 | 0.06 | 0.01- 0.38 | 41.9 | 22.3- 59.4 | 702 | 70- 1883 | 0.0 |
| PIKE | 3 | 1.37 | 0.82- 1.70 | 83.7 | 77.0- 94.5 | 4240 | 3402- 5726 | 100.0 |
| WALLEYE * | 50 | 0.51 | 0.14- 1.00 | 48.4 | 31.1- 64.8 | 1025 | 280- 2345 | 50.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | A | A | A | A | A | A | A | - | - |
| WALLEYE | - | - | - | A | A | A | B | B | C | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000280 | 1.39345 | 0.423 | 0 | | 0.00 |
| WALLEYE | 0.000121 | 2.13856 | 0.697 | 50 | | 0.52 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: SUTTON LAKE, 1977

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5415/8444

DATA SOURCE: NCE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | % >= .5 PPM |
|------------|----|---------------|------------|--------------|------------|--------------|------------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT * | 15 | 1.00 | 0.40- 1.60 | 53.9 | 34.0- 66.0 | 1403 | 350- 2400 | 93.3 |
| PIKE | 15 | 0.62 | 0.31- 1.20 | 62.2 | 54.0- 70.5 | 1803 | 1200- 2500 | 66.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | A | B | C | C | D | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. HC | AT STD. |
|----------|----------|---------|-------|-------------|---------|
| L. TROUT | 0.001603 | 1.60100 | 0.624 | 60 | 1.13 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TETU LAKE, 1977

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5011/9502

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|----------|------|---------------|------------|--------------|--------------|--------------|--------------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| STURGEON | 6 | 2.18 | 0.18- 4.70 | 139.3 | 124.0- 163.0 | 17479 | 10896- 23608 | 83.3 |
| WALLEYE | * 30 | 1.43 | 0.48- 6.00 | 40.6 | 21.0- 76.0 | 751 | 58- 4086 | 96.7 |
| PIKE | * 30 | 1.93 | 0.24- 5.80 | 56.5 | 36.0- 79.0 | 1141 | 298- 3178 | 96.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | A | B | B | C | C | D | D | D | D |
| PIKE | - | - | - | - | A | B | D | D | D | D |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.007914 | 1.36119 | 0.625 | 50 | | 1.63 |
| PIKE | 0.000009 | 3.01404 | 0.808 | 60 | | 2.03 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TETU LAKE, 1976

TOWNSHIP: -

COUNTY : KENORA

LAT/LONG: 5011/9502

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (G.) | | | % >= .5 PPM |
|-------------|------|---------------|-------|------|--------------|-------|------|-------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 47 | 2.23 | 0.92- | 6.20 | 50.9 | 39.5- | 79.0 | 995 | 420- | 3750 | 100.0 |
| WALLEYE | * 48 | 1.65 | 0.65- | 3.90 | 37.3 | 20.5- | 51.0 | 632 | 90- | 1550 | 100.0 |
| SAUGER | * 20 | 1.64 | 1.00- | 3.10 | 27.7 | 22.0- | 37.0 | 211 | 90- | 475 | 100.0 |
| CISCO | * 20 | 0.24 | 0.04- | 0.76 | 26.5 | 18.0- | 34.0 | 339 | 100- | 715 | 15.0 |
| WHITEFISH | 25 | 0.33 | 0.02- | 0.82 | 37.2 | 23.0- | 45.0 | 855 | 170- | 1450 | 28.0 |
| R.H. SUCKER | 4 | 0.58 | 0.33- | 0.98 | 39.4 | 36.5- | 43.0 | 1093 | 890- | 1270 | 50.0 |
| LCREBT | 4 | 1.13 | 0.47- | 2.20 | 37.3 | 15.0- | 62.5 | 661 | 20- | 1915 | 75.0 |
| W. SUCKER | 10 | 0.78 | 0.26- | 1.40 | 35.7 | 29.5- | 41.5 | 744 | 375- | 1120 | 70.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | B | D | D | D | D | D |
| WALLEYE | - | B | B | C | C | D | D | D | - | - |
| SAUGER | - | C | C | D | D | D | - | - | - | - |
| CISCO | - | A | A | A | A | C | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000311 | 2.24065 | 0.777 | 60 | | 3.00 |
| WALLEYE | 0.010674 | 1.38123 | 0.706 | 50 | | 2.37 |
| SAUGER | 0.037744 | 1.12845 | 0.552 | 0 | | 0.00 |
| CISCO | 0.000003 | 3.36282 | 0.737 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TETU LAKE, 1975

TOWNSHIP: --

DISTRICT: KENORA

LAT/LONG: 5011/9502

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | \bar{x} > .5 PPM |
|-----------|------|---------------|-------------|--------------|------------|--------------|------------|-----------------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 32 | 2.87 | 0.99- 10.30 | 63.5 | 46.0- 97.3 | 1919 | 530- 7500 | 100.0 |
| WALLEYE | * 50 | 1.86 | 0.58- 3.98 | 46.2 | 20.5- 66.5 | 1045 | 80- 3050 | 100.0 |
| WHITEFISH | * 16 | 0.63 | 0.18- 1.26 | 48.7 | 41.5- 57.5 | 1246 | 715- 1975 | 68.8 |
| W. SUCKER | 11 | 1.23 | 0.43- 1.79 | 45.9 | 43.0- 50.0 | 1105 | 925- 1325 | 90.9 |
| SAUGER | * 16 | 1.24 | 0.69- 2.71 | 27.7 | 21.0- 41.7 | 198 | 65- 605 | 100.0 |
| Y. PERCH | * 5 | 0.92 | 0.49- 1.61 | 21.0 | 18.0- 25.5 | 118 | 75- 200 | 80.0 |
| BURBOT | 4 | 1.99 | 1.62- 2.32 | 56.5 | 53.5- 58.0 | 1243 | 1160- 1475 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | C | D | D | D | D |
| WALLEYE | - | A | B | B | C | D | D | D | D | - |
| WHITEFISH | - | - | - | - | - | A | B | D | - | - |
| SAUGER | - | B | C | C | D | D | D | - | - | - |
| Y. PERCH | - | B | D | D | D | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000302 | 2.17219 | 0.713 | 60 | | 2.20 |
| WALLEYE | 0.004269 | 1.57153 | 0.793 | 50 | | 2.00 |
| WHITEFISH | 0.000000 | 4.09178 | 0.709 | 0 | | 0.00 |
| SAUGER | 0.010255 | 1.43261 | 0.845 | 0 | | 0.00 |
| Y. PERCH | 0.000066 | 3.11557 | 0.947 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TETU LAKE, 1974

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5011/9502

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|------------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 48 | 1.74 | 0.22- | 6.51 | 55.9 | 39.4- | 85.1 | 1635 | 482- | 6208 | 85.4 |
| WALLEYE | * 50 | 1.45 | 0.40- | 2.70 | 44.2 | 35.6- | 55.9 | 1096 | 510- | 2013 | 98.0 |
| S.M. BASS | 10 | 0.61 | 0.20- | 1.17 | 33.5 | 27.9- | 39.4 | 814 | 454- | 1276 | 60.0 |
| B.BULLHEAD | 4 | 0.10 | 0.04- | 0.13 | 29.8 | 25.4- | 33.0 | 440 | 284- | 624 | 0.0 |
| Y. PERCH | * 9 | 0.11 | 0.06- | 0.22 | 25.0 | 20.3- | 29.2 | 290 | 170- | 425 | 0.0 |
| WHITEFISH | 14 | 0.55 | 0.11- | 2.52 | 39.7 | 31.8- | 48.3 | 1035 | 454- | 2013 | 35.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | B | C | D | D | D |
| WALLEYE | - | - | - | - | B | C | D | D | - | - |
| Y. PERCH | - | A | A | A | A | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000000 | 3.86824 | 0.751 | 60 | | 1.64 |
| WALLEYE | 0.000818 | 1.95545 | 0.517 | 50 | | 1.72 |
| Y. PERCH | 0.000029 | 2.55486 | 0.827 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: THE DALLES, 1976

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 4953/94 32

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| R.H.SUCKER* | 7 | 0.19 | 0.11- | 0.30 | 37.8 | 20.5- | 46.5 | 871 | 125- | 1300 | 0.0 |
| WALLEYE * | 40 | 0.54 | 0.27- | 1.40 | 35.2 | 17.0- | 51.0 | 581 | 50- | 1590 | 45.0 |
| PIKE * | 48 | 0.55 | 0.20- | 1.90 | 47.6 | 29.0- | 81.0 | 1006 | 190- | 4830 | 41.7 |
| W. SUCKER * | 9 | 0.25 | 0.06- | 0.53 | 38.9 | 34.0- | 42.0 | 937 | 490- | 1220 | 11.1 |
| SAUGER * | 9 | 0.57 | 0.34- | 0.80 | 26.2 | 23.0- | 29.5 | 174 | 120- | 250 | 55.6 |
| CISCO | 10 | 0.19 | 0.11- | 0.30 | 29.7 | 23.0- | 33.5 | 424 | 205- | 600 | 0.0 |
| Y. PERCH * | 10 | 0.14 | 0.10- | 0.21 | 20.1 | 17.0- | 23.5 | 146 | 80- | 225 | 0.0 |
| B.BULLHEAD | 6 | 0.23 | 0.19- | 0.31 | 27.5 | 22.0- | 34.0 | 398 | 160- | 725 | 0.0 |
| R. BASS | 4 | 0.56 | 0.40- | 0.68 | 17.6 | 15.5- | 19.5 | 144 | 100- | 185 | 75.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| R.H.SUCKER | - | A | A | A | A | A | A | - | - | - |
| WALLEYE | - | A | A | A | B | B | B | C | - | - |
| PIKE | - | - | - | A | A | A | B | B | C | D |
| W. SUCKER | - | - | - | - | A | B | D | - | - | - |
| SAUGER | - | - | B | B | C | - | - | - | - | - |
| Y. PERCH | - | A | A | A | A | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|------------|----------|---------|-------|----------|------|---------|
| R.H.SUCKER | 0.004855 | 1.00027 | 0.780 | 0 | 0.00 | |
| WALLEYE | 0.003158 | 1.42553 | 0.758 | 50 | 0.83 | |
| PIKE | 0.000117 | 2.15952 | 0.850 | 60 | 0.81 | |
| W. SUCKER | 0.000000 | 6.74547 | 0.708 | 0 | 0.00 | |
| SAUGER | 0.000025 | 3.05771 | 0.921 | 0 | 0.00 | |
| Y. PERCH | 0.001432 | 1.51728 | 0.898 | 0 | 0.00 | |

MECURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: THE DALLES, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LCNC: 4953/94 32

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE * | 54 | 0.90 | 0.13- | 1.94 | 47.8 | 14.0- | 60.5 | 1192 | 35- | 2250 | 90.7 |
| R.H. SUCKER | 2 | 0.48 | 0.13- | 0.82 | 45.6 | 41.2- | 50.0 | 1255 | 900- | 1610 | 50.0 |
| PIKE * | 20 | 1.15 | 0.46- | 2.01 | 66.2 | 43.8- | 86.0 | 2131 | 430- | 5100 | 95.0 |
| SAUGER * | 15 | 0.74 | 0.40- | 0.99 | 24.7 | 20.0- | 28.5 | 136 | 75- | 200 | 86.7 |
| MOONEYE | 20 | 0.31 | 0.19- | 0.56 | 35.1 | 31.3- | 38.0 | 518 | 380- | 660 | 5.0 |
| S.M. BASS * | 9 | 0.54 | 0.30- | 1.04 | 33.1 | 29.7- | 40.3 | 678 | 485- | 1250 | 44.4 |
| B. BULLHEAD | 1 | 0.21 | - | - | 30.3 | - | - | 575 | - | - | - |
| W. SUCKER * | 67 | 0.33 | 0.08- | 0.72 | 43.4 | 22.5- | 50.6 | 1058 | 140- | 1540 | 13.4 |
| BURBOT | 1 | 0.97 | - | - | 50.0 | - | - | 760 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | A | A | A | A | B | B | C | C | D | - |
| PIKE | - | - | - | - | - | B | B | C | C | D |
| SAUGER | - | A | B | C | D | - | - | - | - | - |
| S.M. BASS | - | - | - | A | B | C | - | - | - | - |
| W. SUCKER | - | A | A | A | A | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.004924 | 1.33140 | 0.618 | 50 | | 0.90 |
| PIKE | 0.000408 | 1.88340 | 0.750 | 60 | | 0.91 |
| SAUGER | 0.000254 | 2.47770 | 0.793 | 0 | | 0.00 |
| S.M. BASS | 0.000067 | 2.55770 | 0.669 | 0 | | 0.00 |
| W. SUCKER | 0.000294 | 1.84114 | 0.468 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TOOLE LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 5022/9332

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | % >= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WHITEFISH * | 43 | 0.10 | 0.03- 0.35 | 43.4 | 26.5- 56.0 | 1222 | 234- 2100 | 0.0 |
| PIKE | 4 | 0.76 | 0.43- 1.30 | 65.1 | 53.5- 71.5 | 1796 | 984- 2460 | 50.0 |
| WALLEYE | 30 | 0.72 | 0.41- 1.30 | 47.3 | 41.0- 58.5 | 1262 | 780- 2124 | 90.0 |
| W. SUCKER | 10 | 0.11 | 0.06- 0.23 | 44.0 | 41.0- 50.5 | 1189 | 930- 1554 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | A | A | A | A | A | A | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000029 | 2.13380 | 0.705 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TOOTHPICK LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5007/9408

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| CISCO | * 50 | 0.13 | 0.09- | 0.19 | 20.1 | 16.5- | 24.2 | 77 | 50- | 120 | 0.0 |
| PIKE | * 56 | 0.83 | 0.19- | 1.57 | 58.6 | 34.8- | 73.0 | 1162 | 265- | 2025 | 82.1 |
| BURBOT | 5 | 0.57 | 0.40- | 0.78 | 64.1 | 59.3- | 70.3 | 1850 | 1370- | 2350 | 60.0 |
| S.M. BASS | 3 | 0.75 | 0.46- | 1.33 | 36.6 | 32.8- | 40.5 | 782 | 550- | 1020 | 33.3 |
| WALLEYE | * 44 | 0.73 | 0.42- | 1.60 | 48.1 | 30.5- | 61.2 | 1012 | 110- | 2190 | 88.6 |
| W. SUCKER | * 14 | 0.25 | 0.06- | 0.48 | 46.1 | 37.8- | 53.0 | 1180 | 625- | 1805 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| CISCO | A | A | A | A | A | - | - | - | - | - |
| PIKE | - | - | - | - | A | A | B | C | D | D |
| WALLEYE | - | - | - | A | A | B | B | C | D | - |
| W. SUCKER | - | - | - | - | A | A | A | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| CISCO | 0.003879 | 1.15968 | 0.772 | 0 | | 0.00 |
| PIKE | 0.000003 | 3.09274 | 0.885 | 60 | | 0.83 |
| WALLEYE | 0.000541 | 1.85315 | 0.812 | 50 | | 0.76 |
| W. SUCKER | 0.000000 | 3.62974 | 0.578 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TRAPLINE LAKE, 1975

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 50 30/94 57

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 15 | 1.00 | 0.40- | 2.40 | 56.4 | 38.0- | 82.5 | 1435 | 360- | 3695 | 66.7 |
| WALLEYE | * 56 | 0.90 | 0.39- | 1.70 | 38.7 | 25.0- | 57.0 | 679 | 170- | 2100 | 89.3 |
| CISCO | 21 | 0.22 | 0.10- | 0.32 | 24.7 | 20.5- | 31.0 | 225 | 140- | 430 | 0.0 |
| W. SUCKER | * 50 | 0.15 | 0.04- | 0.35 | 40.9 | 30.0- | 48.0 | 1064 | 370- | 1645 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | B | B | C | D | D |
| WALLEYE | - | - | A | B | B | C | D | D | - | - |
| W. SUCKER | - | - | - | A | A | A | A | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + A_1 L$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000063 | 2.37094 | 0.932 | 60 | | 1.03 |
| WALLEYE | 0.002710 | 1.57595 | 0.805 | 50 | | 1.29 |
| W. SUCKER | 0.000002 | 2.98996 | 0.669 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TUPMAN LAKE, 1977
TOWNSHIP: - DISTRICT: RAINY RIVER LAT/LONG: 4855/9304
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 10 | 1.12 | 0.75- | 1.60 | 53.0 | 43.5- | 59.4 | 1490 | 970- | 2110 | 100.0 |
| PIKE | * 7 | 0.79 | 0.63- | 0.91 | 62.6 | 58.0- | 70.5 | 1644 | 1250- | 2100 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | B | C | D | - | - |
| PIKE | - | - | - | - | - | - | B | B | C | C |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^A A_1$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000024 | 2.70071 | 0.745 | 50 | | 0.93 |
| PIKE | 0.001009 | 1.60858 | 0.802 | 60 | | 0.73 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: TUTU LAKE, 1977

TOWNSHIP: -

DISTRICT : KENORA

LAT/LONG: 5205/9228

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 10 | 0.61 | 0.15- | 1.20 | 57.4 | 41.0- | 78.0 | 1085 | 227- | 2724 | 60.0 |
| WALLEYE | 10 | 0.78 | 0.30- | 1.40 | 43.3 | 37.0- | 49.0 | 760 | 454- | 1022 | 70.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: UMFREVILLE LAKE, 1976
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5018/9445
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|-------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER * | 10 | 0.58 | 0.07- | 1.10 | 44.4 | 39.0- | 50.5 | 1297 | 905- | 1810 | 70.0 |
| PIKE * | 48 | 2.32 | 0.67- | 10.00 | 50.5 | 31.0- | 92.0 | 1101 | 215- | 4600 | 100.0 |
| SAUGER * | 24 | 1.65 | 0.62- | 3.40 | 26.6 | 18.5- | 35.0 | 193 | 55- | 420 | 100.0 |
| WALLEYE * | 50 | 1.61 | 0.44- | 4.90 | 34.2 | 13.0- | 62.0 | 660 | 40- | 2080 | 98.0 |
| WHITEFISH | 10 | 0.62 | 0.37- | 0.90 | 45.7 | 38.0- | 57.0 | 1563 | 780- | 3180 | 60.0 |
| Y. PERCH | 7 | 0.54 | 0.28- | 1.00 | 18.2 | 15.0- | 24.0 | 116 | 75- | 220 | 57.1 |
| CISCO | 6 | 0.31 | 0.23- | 0.43 | 17.2 | 16.0- | 19.0 | 78 | 60- | 100 | 0.0 |
| BURBOT | 5 | 1.35 | 0.28- | 2.10 | 50.5 | 23.0- | 63.1 | 1091 | 85- | 1750 | 60.0 |
| S.M. BASS | 3 | 3.57 | 3.20- | 3.80 | 42.8 | 42.5- | 43.5 | 1435 | 1310- | 1650 | 100.0 |
| R. BASS | 1 | 0.88 | - | - | 18.0 | - | - | 150 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | - | - | - | A | B | D | - | - | - |
| PIKE | - | - | - | B | B | D | D | D | D | D |
| SAUGER | - | B | C | D | D | D | - | - | - | - |
| WALLEYE | B | B | C | C | D | D | D | D | D | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|----------|-------|----------|----|---------|
| W. SUCKER | 0.000000 | 10.01070 | 0.808 | 0 | | 0.00 |
| PIKE | 0.000534 | 2.10343 | 0.862 | 60 | | 2.94 |
| SAUGER | 0.000871 | 2.27801 | 0.927 | 0 | | 0.00 |
| WALLEYE | 0.019995 | 1.21537 | 0.842 | 50 | | 2.32 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: UMFREVILLE (E) LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5018/9445

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 49 | 2.06 | 0.92- | 6.04 | 49.0 | 40.0- | 60.5 | 1234 | 610- | 2300 | 100.0 |
| WHITEFISH | 5 | 0.56 | 0.44- | 0.74 | 48.8 | 43.0- | 55.0 | 1465 | 925- | 2030 | 40.0 |
| PIKE | 4 | 2.85 | 1.45- | 3.95 | 64.4 | 53.0- | 76.0 | 1828 | 950- | 3225 | 100.0 |
| MOONEYE | 1 | 1.39 | - | - | 34.5 | - | - | 370 | - | - | - |
| SAUGER | 1 | 1.59 | - | - | 26.3 | - | - | 170 | - | - | - |
| BURBOT | 2 | 1.63 | 1.61- | 1.65 | 56.7 | 54.0- | 59.3 | 1250 | 1250- | 1250 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | D | D | D | D | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000108 | 2.51673 | 0.765 | 50 | | 2.04 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: UMFREVILLE (E) LAKE, 1974
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5018/9445
DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 50 | 2.48 | 0.81- | 5.71 | 50.0 | 38.1- | 64.8 | 1514 | 680- | 3770 | 100.0 |
| PIKE | * 46 | 3.99 | 1.83- | 8.61 | 64.3 | 48.3- | 95.3 | 2073 | 879- | 6123 | 100.0 |
| WHITEFISH | 30 | 0.50 | 0.10- | 0.99 | 43.6 | 34.3- | 54.6 | 1355 | 551- | 2409 | 46.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | B | D | D | D | D | - |
| PIKE | - | - | - | - | - | D | D | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000178 | 2.41622 | 0.600 | 50 | | 2.27 |
| PIKE | 0.010366 | 1.41664 | 0.520 | 60 | | 3.42 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: UMFREVILLE (W) LAKE, 1975

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5018/9445

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH * | 41 | 0.47 | 0.29- | 0.82 | 45.8 | 35.8- | 56.0 | 1192 | 515- | 2050 | 31.7 |
| BURBOT * | 12 | 1.51 | 0.47- | 3.53 | 50.1 | 28.6- | 60.0 | 888 | 170- | 1430 | 91.7 |
| W. SUCKER | 12 | 0.99 | 0.48- | 1.68 | 49.2 | 45.6- | 55.5 | 1550 | 1200- | 2130 | 91.7 |
| WALLEYE * | 80 | 1.99 | 0.70- | 4.85 | 49.2 | 31.5- | 71.5 | 1263 | 235- | 3950 | 100.0 |
| SAUGER * | 7 | 1.34 | 0.48- | 2.73 | 26.6 | 19.5- | 30.2 | 152 | 60- | 215 | 85.7 |
| PIKE | 10 | 3.35 | 1.16- | 6.09 | 69.0 | 55.0- | 84.2 | 2313 | 1010- | 5060 | 100.0 |
| CISCO | 1 | 0.56 | - | - | 42.5 | - | - | 1060 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | - | A | A | B | B | - | - |
| BURBOT | - | - | - | B | B | C | D | D | - | - |
| WALLEYE | - | - | - | B | B | D | D | D | D | D |
| SAUGER | - | B | C | D | D | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|------|---------|
| WHITEFISH | 0.000856 | 1.64298 | 0.724 | 0 | 0.00 | |
| BURBOT | 0.000617 | 1.96190 | 0.727 | 0 | 0.00 | |
| WALLEYE | 0.000072 | 2.60513 | 0.762 | 50 | 1.92 | |
| SAUGER | 0.000035 | 3.18475 | 0.898 | 0 | 0.00 | |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: UMFREVILLE (W) LAKE, 1974

TOWNSHIP: - DISTRICT: KENORA

LAT/LONG: 5018/9445

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| SAUGER | 1 | 2.50 | - | - | 30.5 | - | - | 312 | - | - | - |
| Y. PERCH | 2 | 0.48 | 0.41- | 0.54 | 25.4 | 25.4- | 25.4 | 270 | 255- | 284 | 50.0 |
| R. BASS | 1 | 0.51 | - | - | 15.2 | - | - | 85 | - | - | - |
| PIKE | * 18 | 1.70 | 0.76- | 5.01 | 48.8 | 38.1- | 68.6 | 899 | 340- | 2438 | 100.0 |
| WALLEYE | * 31 | 1.22 | 0.54- | 3.81 | 44.3 | 25.4- | 59.7 | 1120 | 170- | 2693 | 100.0 |
| WHITEFISH | 5 | 0.60 | 0.45- | 0.74 | 50.0 | 45.7- | 54.6 | 2285 | 1446- | 3175 | 80.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | B | C | D | D | D | - |
| WALLEYE | - | - | A | B | B | C | D | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000055 | 2.62987 | 0.826 | 60 | | 2.63 |
| WALLEYE | 0.001528 | 1.73347 | 0.589 | 50 | | 1.35 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: UNNAMED(#1) LAKE, 1977

TOWNSHIP: -

DISTRICT : KENORA

LAT/LONG: 5123/9425

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | Σ > .5 PPM |
|----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 5 | 0.39 | 0.13- | 0.72 | 57.5 | 52.0- | 65.0 | 1463 | 675- | 2250 | 40.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: UNNAMED (#2) LAKE, 1977
 TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5122/9425
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|---------|-----|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 7 | 0.57 | 0.27- 1.10 | 63.4 | 51.0- 71.5 | 1350 | 675- 1800 | 57.1 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | - | A | E | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000000 | 4.03509 | 0.914 | 60 | | 0.41 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WABIGOON LAKE, 1976

TOWNSHIP: -

DISTRICT: KENORA

LAT/LONG: 4944/9244

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 50 | 0.69 | 0.39- | 1.30 | 55.7 | 42.0- | 73.6 | 1825 | 652- | 4593 | 88.0 |
| PIKE | * 50 | 0.73 | 0.20- | 1.80 | 69.0 | 43.1- | 88.0 | 2318 | 454- | 5216 | 82.0 |
| WHITEFISH | 5 | 0.05 | 0.05- | 0.07 | 42.8 | 36.1- | 47.1 | 992 | 510- | 1446 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | A | B | B | C | C |
| PIKE | - | - | - | - | - | A | A | B | B | C |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.001263 | 1.56012 | 0.664 | 50 | | 0.56 |
| PIKE | 0.000200 | 1.92503 | 0.705 | 60 | | 0.53 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WABIGOON RIVER, 1975
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5015/9356
DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-----------|----|---------------|-------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WHITEFISH | 10 | 0.95 | 0.40- 2.07 | 39.2 | 34.0- 44.0 | 985 | 630- 1480 | 80.0 |
| PIKE * | 33 | 4.36 | 0.73- 10.46 | 52.3 | 37.5- 72.0 | 1248 | 345- 3595 | 100.0 |
| WALLEYE | 58 | 6.66 | 0.23- 12.02 | 45.0 | 33.5- 55.0 | 1084 | 380- 1765 | 94.8 |
| CISCO | 6 | 2.46 | 1.43- 3.27 | 34.3 | 32.5- 35.5 | 628 | 495- 725 | 100.0 |
| SAUGER | 9 | 5.38 | 4.15- 6.51 | 34.3 | 30.0- 38.5 | 455 | 250- 765 | 100.0 |
| W. SUCKER | 32 | 1.18 | 0.38- 2.54 | 40.5 | 37.5- 45.0 | 1108 | 900- 1380 | 96.9 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | D | D | D | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.004021 | 1.74828 | 0.672 | 60 | | 5.17 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WABIKOE LAKE, 1977

TOWNSHIP: -

DISTRICT: THUNDER BAY

LAT/LONG: 4847/8545

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 11 | 0.49 | 0.19- | 0.83 | 57.9 | 38.5- | 89.0 | 1525 | 300- | 4700 | 45.5 |
| WALLEYE | * 7 | 0.63 | 0.25- | 1.30 | 44.6 | 31.0- | 54.0 | 821 | 200- | 1400 | 57.1 |
| CISCO | * 25 | 0.12 | 0.04- | 0.25 | 26.7 | 15.0- | 37.0 | 266 | 25- | 550 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | B | B | B |
| WALLEYE | - | - | - | A | A | B | B | C | - | - |
| CISCO | A | A | A | A | A | A | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000598 | 1.63435 | 0.829 | 60 | | 0.48 |
| WALLEYE | 0.000161 | 2.14788 | 0.766 | 50 | | 0.72 |
| CISCO | 0.000901 | 1.46302 | 0.815 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WAVELL LAKE, 1977
TOWNSHIP: - DISTRICT: KENORA LAT/LONG: 5134/9243
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 10 | 1.06 | 0.49- | 2.10 | 35.2 | 27.5- | 47.8 | 392 | 180- | 900 | 90.0 |
| PIKE | 6 | 0.92 | 0.40- | 1.50 | 60.0 | 45.5- | 88.8 | 1388 | 225- | 4950 | 83.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | B | C | D | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^A A_1$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000267 | 2.30714 | 0.945 | 50 | | 2.22 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WAWANG LAKE, 1977

TOWNSHIP: -

DISTRICT: THUNDER BAY

LAT/LONG: 4925/9034

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥0.5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|-------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 16 | 0.31 | 0.11- | 0.86 | 57.0 | 39.0- | 100.0 | 1737 | 340- | 7640 | 12.5 |
| WALLEYE | * 13 | 0.19 | 0.12- | 0.30 | 31.8 | 19.0- | 62.0 | 476 | 89- | 1740 | 0.0 |
| Y. PERCH | 3 | 0.14 | 0.07- | 0.19 | 17.3 | 15.0- | 21.0 | 73 | 40- | 132 | 0.0 |
| CISCO | 2 | 0.12 | 0.09- | 0.14 | 20.5 | 20.0- | 21.0 | 109 | 99- | 118 | 0.0 |
| WHITEFISH | 2 | 0.05 | 0.04- | 0.06 | 34.0 | 32.0- | 36.0 | 537 | 404- | 670 | 0.0 |
| W. SUCKER | * 6 | 0.10 | 0.03- | 0.27 | 37.2 | 26.0- | 47.0 | 900 | 255- | 1598 | 0.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | A | A | B |
| WALLEYE | - | A | A | A | A | A | A | A | A | - |
| W. SUCKER | - | - | A | A | A | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN | HC AT STD. |
|-----------|----------|---------|-------|---------|------------|
| PIKE | 0.000155 | 1.84597 | 0.881 | 60 | 0.30 |
| WALLEYE | 0.018158 | 0.67352 | 0.894 | 50 | 0.25 |
| W. SUCKER | 0.000001 | 3.23017 | 0.897 | 0 | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WINDIGOKAN LAKE, 1977
TOWNSHIP: IRWIN DISTRICT : THUNDER BAY LAT/LONG: 4942/8751
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|------------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 12 | 0.47 | 0.23- 1.20 | 58.1 | 44.0- 72.5 | 1404 | 800- 2400 | 33.3 |
| WALLEYE | 3 | 0.87 | 0.83- 0.94 | 56.8 | 53.5- 62.0 | 2033 | 1700- 2600 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | A | A | B | B | C |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000019 | 2.47579 | 0.877 | 60 | | 0.47 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: WINISK RIVER, 1977

TOWNSHIP: -

DISTRICT : KENORA

LAT/LONG: 5517/8505

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | % ≥ .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L.N. SUCKER | 9 | 0.13 | 0.05- | 0.22 | 36.9 | 35.0- | 39.0 | 553 | 400- | 680 | 0.0 |
| W. SUCKER | 6 | 0.15 | 0.11- | 0.24 | 36.4 | 34.0- | 38.0 | 613 | 500- | 700 | 0.0 |
| PIKE | 6 | 0.20 | 0.12- | 0.30 | 49.6 | 40.5- | 59.0 | 865 | 450- | 1462 | 0.0 |
| WHITEFISH | 13 | 0.10 | 0.08- | 0.16 | 36.4 | 32.0- | 39.5 | 493 | 400- | 680 | 0.0 |

MERCURY DATA SUMMARIES

LAKE ONTARIO

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #1, 1976

SAMPLING SITE: EURLINGTON DAY COUNTY : HAMILTON

LAT/LONG:

4313/7948

DATA SOURCE: DOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (G.) | | | Σ ≥ .5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|-------------|-------|----|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| SMELT | 19 | 0.19 | 0.13- | 0.24 | 18.6 | 13.8- | 27.8 | 43 | 20- | 77 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #1, 1977

SAMPLING SITE: CREDIT F. COUNTY: PEEL

LAT/LONG: 4333/7935

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. BASS | 30 | 0.24 | 0.15- | 0.41 | 24.9 | 20.2- | 31.1 | 217 | 100- | 460 | 0.0 |
| COHO | 19 | 0.32 | 0.26- | 0.48 | 65.8 | 60.5- | 80.0 | 4457 | 3640- | 5180 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #1, 1975

SAMPLING SITE: CREDIT F. COUNTY: PEEL

LAT/LONG: 4333/7935

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | Σ ≥ .5 PPM |
|---------|----|---------------|------------|--------------|------------|--------------|------------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| COHO | 36 | 0.27 | 0.18- 0.38 | 65.1 | 52.0- 75.2 | 4100 | 1600- 6260 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #1, 1977

SAMPLING SITE: HEARN CEN. STN. COUNTY: PEEL

LAT/LONG: 4339/7920

DATA SOURCE: LOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ>=1.5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| CARP | 22 | 0.42 | 0.13- | 0.99 | 75.8 | 65.5- | 83.0 | 6991 | 4540- | 8853 | 18.2 |
| W. BASS | * 30 | 0.31 | 0.12- | 0.77 | 27.7 | 20.0- | 37.6 | 324 | 130- | 800 | 13.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. BASS | - | A | A | A | A | B | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| W. BASS | 0.000228 | 2.15025 | 0.623 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #1, 1976

SAMPLING SITE: PORT DALHOUSIE COUNTY : ST. CATHERINES LAT/LONG:
4312/7916

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|----------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| COHO | 10 | 0.19 | 0.15- | 0.23 | 47.7 | 46.1- | 49.4 | 1330 | 1200- | 1500 | 0.0 |
| SMELT | * 10 | 0.13 | 0.09- | 0.21 | 15.2 | 13.4- | 18.5 | 29 | 20- | 50 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| SMELT | A | A | A | - | - | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| SMELT | 0.000562 | 1.96854 | 0.778 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #1, 1975

SAMPLING SITE: HUMBER R. COUNTY: YORK

LAT/LONG: 4338/7928

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|--------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 7 | 0.28 | 0.13- | 0.52 | 46.2 | 32.0- | 54.0 | 719 | 190- | 1143 | 14.3 |
| B. BULLHEAD* | 20 | 0.24 | 0.08- | 0.76 | 25.2 | 19.0- | 31.0 | 260 | 92- | 560 | 10.0 |
| P. SEED | 2 | 0.36 | 0.20- | 0.52 | 15.8 | 15.5- | 16.0 | 107 | 90- | 123 | 50.0 |
| W. SUCKER * | 48 | 0.17 | 0.03- | 0.76 | 34.1 | 20.0- | 50.0 | 480 | 85- | 1220 | 6.3 |
| W. BASS | 5 | 0.12 | 0.05- | 0.18 | 16.6 | 13.0- | 20.0 | 78 | 30- | 135 | 0.0 |
| SMELT | 2 | 0.17 | 0.14- | 0.19 | 18.3 | 17.0- | 19.5 | 36 | 26- | 45 | 0.0 |
| Y. PERCH * | 14 | 0.35 | 0.09- | 0.97 | 22.4 | 12.0- | 25.5 | 191 | 25- | 285 | 7.1 |
| BLUEGILL | 2 | 0.20 | 0.10- | 0.29 | 15.0 | 11.0- | 19.0 | 70 | 20- | 120 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| B. BULLHEAD | - | A | A | A | B | - | - | - | - | - |
| W. SUCKER | - | A | A | A | A | A | A | - | - | - |
| Y. PERCH | A | A | A | B | B | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-------------|----------|---------|-------|----------|------|---------|
| B. BULLHEAD | 0.000009 | 3.09125 | 0.700 | 0 | 0.00 | |
| W. SUCKER | 0.000093 | 2.07283 | 0.620 | 0 | 0.00 | |
| Y. PERCH | 0.000302 | 2.23230 | 0.797 | 0 | 0.00 | |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #1, 1975

SAMPLING SITE: MISC. LOC. COUNTY: YOPK

LAT/LONG: -

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % ≥ 0.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| EEL | 1 | 0.75 | - | - | 74.0 | - | - | 1197 | - | - | - |
| B. CRAPPIE | 1 | 0.20 | - | - | 25.0 | - | - | 302 | - | - | - |
| PIKE | 1 | 0.20 | - | - | 37.5 | - | - | 452 | - | - | - |
| W. SUCKER * | 12 | 0.28 | 0.02- | 0.68 | 33.3 | 22.5- | 46.0 | 466 | 110- | 1100 | 8.3 |
| Y. PERCH | 2 | 0.24 | 0.23- | 0.25 | 21.5 | 21.0- | 22.0 | 162 | 129- | 194 | 0.0 |
| W. PERCH | 2 | 0.35 | 0.34- | 0.35 | 22.3 | 21.0- | 23.5 | 212 | 170- | 254 | 0.0 |
| B. BULLHEAD | 5 | 0.09 | 0.06- | 0.11 | 25.4 | 24.0- | 26.5 | 227 | 210- | 240 | 0.0 |
| W. BASS | 2 | 0.58 | 0.18- | 0.98 | 25.3 | 19.5- | 31.0 | 336 | 105- | 566 | 50.0 |
| R. BASS | 1 | 0.65 | - | - | 18.0 | - | - | 130 | - | - | - |
| CARP | 4 | 0.51 | 0.46- | 0.65 | 29.3 | 20.0- | 44.0 | 318 | 100- | 790 | 25.0 |
| L.M. BASS | 3 | 0.42 | 0.37- | 0.46 | 27.8 | 24.5- | 30.0 | 340 | 220- | 410 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | A | A | A | A | B | C | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| W. SUCKER | 0.000004 | 3.13130 | 0.680 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #1, 1975
SAMPLING SITE: TOFONIO IS. COUNTY : YORK LAT/LONG:
4337/7923
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| ALEWIFE | 6 | 0.09 | 0.08- | 0.11 | 15.0 | 14.1- | 15.2 | 260 | 260- | 260 | 0.0 |
| B. BULLHEAD | 4 | 0.10 | 0.04- | 0.16 | 23.2 | 15.2- | 30.5 | 201 | 60- | 380 | 0.0 |
| CARP | 1 | 0.15 | - | - | 58.0 | - | - | 2260 | - | - | - |
| G. SHAD | 3 | 0.05 | 0.04- | 0.07 | 27.1 | 13.2- | 39.7 | 385 | 80- | 830 | 0.0 |
| PIKE | 9 | 0.32 | 0.10- | 0.63 | 49.2 | 35.6- | 70.1 | 722 | 190- | 1808 | 22.2 |
| P. SEED | 2 | 0.24 | 0.11- | 0.36 | 14.8 | 12.2- | 17.3 | 50 | 20- | 80 | 0.0 |
| R. BASS | 2 | 0.19 | 0.15- | 0.22 | 18.9 | 15.3- | 22.5 | 133 | 65- | 200 | 0.0 |
| W. BASS | 2 | 0.23 | 0.20- | 0.26 | 20.9 | 20.7- | 21.0 | 73 | 55- | 90 | 0.0 |
| W. PERCH * | 11 | 0.18 | 0.06- | 0.38 | 20.4 | 16.0- | 25.7 | 130 | 50- | 280 | 0.0 |
| W. SUCKER * | 48 | 0.17 | 0.06- | 0.48 | 35.6 | 26.2- | 49.0 | 516 | 150- | 1410 | 0.0 |
| Y. PERCH | 26 | 0.19 | 0.07- | 0.48 | 19.7 | 15.5- | 29.5 | 150 | 40- | 450 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. PERCH | A | A | A | B | B | - | - | - | - | - |
| W. SUCKER | - | - | A | A | A | A | B | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- L MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|------|---------|
| W. PERCH | 0.000010 | 3.21395 | 0.852 | 0 | 0.00 | 0.00 |
| W. SUCKER | 0.000001 | 3.32948 | 0.878 | 0 | 0.00 | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #2, 1975

SAMPLING SITE: DUFFIN CREEK COUNTY: ONTARIO

LAT/LONG: 4 349/7902

DATA SOURCE: DOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (G.) | | | ≥.5 PPM |
|--------------|----|---------------|-------|------|--------------|-------|------|-------------|-------|------|---------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER * | 8 | 0.16 | 0.06- | 0.36 | 31.6 | 20.0- | 38.5 | 409 | 80- | 806 | 0.0 |
| W. PERCH | 2 | 0.52 | 0.40- | 0.64 | 23.0 | 22.0- | 24.0 | 197 | 160- | 233 | 50.0 |
| R. BASS | 2 | 0.96 | 0.72- | 1.20 | 23.0 | 21.0- | 25.0 | 299 | 230- | 368 | 100.0 |
| S.M. BASS | 1 | 0.38 | - | - | 30.0 | - | - | 467 | - | - | - |
| L. BULLHEAD* | 20 | 0.35 | 0.10- | 0.76 | 26.5 | 18.5- | 32.0 | 261 | 70- | 460 | 20.0 |
| Y. PERCH * | 9 | 0.35 | 0.19- | 0.50 | 22.6 | 18.5- | 27.0 | 166 | 60- | 240 | 11.1 |
| W. BASS | 3 | 0.25 | 0.14- | 0.37 | 17.3 | 16.0- | 19.0 | 87 | 55- | 120 | 0.0 |
| CARP | 5 | 0.26 | 0.11- | 0.47 | 50.0 | 43.0- | 64.0 | 1706 | 1000- | 3275 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | A | A | A | A | A | - | - | - | - |
| L. BULLHEAD | - | A | A | D | D | - | - | - | - | - |
| Y. PERCH | - | A | A | B | D | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-------------|----------|---------|-------|----------|------|---------|
| W. SUCKER | 0.000481 | 1.64830 | 0.703 | 0 | 0.00 | |
| L. BULLHEAD | 0.000004 | 3.47210 | 0.900 | 0 | 0.00 | |
| Y. PERCH | 0.000495 | 2.09327 | 0.903 | 0 | 0.00 | |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #2, 1975
SAMPLING SITE: FRENCHMAN BAY COUNTY: ONTARIO LAT/LONG: 4349/7905
DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-----------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B. BULLHEAD | 12 | 0.32 | 0.11- | 0.64 | 26.8 | 20.0- | 32.0 | 304 | 100- | 555 | 16.7 |
| R. BASS | 2 | 0.55 | 0.27- | 0.82 | 23.0 | 19.0- | 27.0 | 316 | 149- | 483 | 50.0 |
| B. CRAPPIE | 4 | 0.30 | 0.20- | 0.39 | 26.4 | 23.0- | 29.0 | 324 | 245- | 415 | 0.0 |
| W. PERCH | 7 | 0.76 | 0.25- | 1.40 | 28.3 | 22.0- | 31.0 | 507 | 175- | 849 | 71.4 |
| CARP | 5 | 0.21 | 0.05- | 0.52 | 49.0 | 46.0- | 54.0 | 2011 | 1360- | 2822 | 20.0 |
| W. BASS * | 12 | 0.49 | 0.11- | 1.10 | 24.9 | 16.0- | 33.0 | 279 | 70- | 630 | 41.7 |
| G. SHAD * | 6 | 0.07 | 0.01- | 0.32 | 24.9 | 13.5- | 41.5 | 304 | 33- | 913 | 0.0 |
| W. SUCKER | 2 | 0.09 | 0.05- | 0.12 | 36.8 | 36.5- | 37.0 | 465 | 440- | 490 | 0.0 |
| PIKE | 5 | 0.24 | 0.19- | 0.27 | 57.4 | 53.0- | 64.0 | 1231 | 1075- | 1680 | 0.0 |
| P. SEED | 2 | 0.35 | 0.25- | 0.45 | 22.0 | 20.0- | 24.0 | 200 | 175- | 225 | 0.0 |
| Y. PERCH | 7 | 0.32 | 0.24- | 0.44 | 25.2 | 20.0- | 30.0 | 275 | 110- | 460 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. BASS | A | A | A | B | C | D | - | - | - | - |
| G. SHAD | A | A | A | A | A | A | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|------|---------|
| W. BASS | 0.000021 | 3.06832 | 0.789 | 0 | 0.00 | |
| G. SHAD | 0.000014 | 2.42771 | 0.833 | 0 | 0.00 | |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #2, 1975

SAMPLING SITE: ROUGE R.

COUNTY: PICKERING

LAT/LONG: 4348/7907

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|--------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B. CRAPPIE | 2 | 0.20 | 0.11- | 0.28 | 27.5 | 17.0- | 38.0 | 369 | 76- | 662 | 0.0 |
| EEL | 1 | 0.13 | - | - | 68.0 | - | - | 726 | - | - | - |
| B. BULLHEAD* | 32 | 0.37 | 0.09- | 1.10 | 26.0 | 18.0- | 34.0 | 276 | 90- | 560 | 25.0 |
| W. PERCH | 2 | 0.45 | 0.33- | 0.56 | 20.5 | 20.0- | 21.0 | 138 | 105- | 170 | 50.0 |
| R. BASS | 3 | 0.47 | 0.34- | 0.71 | 20.3 | 18.0- | 22.0 | 223 | 150- | 276 | 33.3 |
| Y. PERCH | 41 | 0.35 | 0.19- | 0.94 | 22.1 | 6.0- | 28.0 | 171 | 60- | 363 | 12.2 |
| ALEWIFE | 2 | 0.17 | 0.14- | 0.19 | 20.0 | 19.0- | 21.0 | 60 | 55- | 65 | 0.0 |
| W. BASS | 4 | 0.39 | 0.26- | 0.58 | 20.8 | 17.0- | 23.0 | 151 | 100- | 220 | 25.0 |
| W. SUCKER * | 17 | 0.17 | 0.09- | 0.33 | 35.6 | 21.0- | 41.0 | 487 | 87- | 840 | 0.0 |
| P. SEED | 1 | 0.17 | - | - | 13.0 | - | - | 55 | - | - | - |
| PIKE | 3 | 0.90 | 0.63- | 1.40 | 68.7 | 66.0- | 71.0 | 2047 | 1860- | 2400 | 100.0 |
| CARP | 1 | 0.25 | - | - | 55.0 | - | - | 1750 | - | - | - |
| F.W. DRUM | 1 | 0.58 | - | - | 33.0 | - | - | 350 | - | - | - |
| S.M. BASS | 1 | 0.97 | - | - | 37.0 | - | - | 700 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| B. BULLHEAD | - | A | A | B | E | D | - | - | - | - |
| W. SUCKER | - | A | A | A | A | A | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-------------|----------|---------|-------|----------|------|---------|
| B. BULLHEAD | 0.000004 | 3.44043 | 0.834 | 0 | 0.00 | |
| W. SUCKER | 0.000205 | 1.86334 | 0.695 | 0 | 0.00 | |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #4, 1975

SAMPLING SITE: BAY OF QUINTE COUNTY : HASTINGS
4409/7715

LAT/LONG:

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE * | 15 | 0.34 | 0.07- | 1.50 | 47.2 | 35.4- | 73.5 | 1549 | 550- | 4380 | 13.3 |
| PIKE * | 12 | 0.40 | 0.23- | 0.79 | 65.8 | 54.5- | 74.6 | 2223 | 1150- | 2950 | 8.3 |
| S.M. BASS * | 10 | 0.52 | 0.09- | 1.10 | 33.2 | 20.3- | 44.2 | 735 | 125- | 1810 | 50.0 |
| L.M. BASS * | 5 | 0.40 | 0.08- | 0.88 | 37.9 | 23.2- | 58.7 | 1205 | 255- | 2920 | 40.0 |
| C. CATFISH* | 7 | 0.47 | 0.04- | 1.10 | 38.3 | 22.8- | 58.8 | 1296 | 145- | 3025 | 42.9 |
| W. PERCH * | 8 | 0.15 | 0.11- | 0.25 | 16.4 | 13.2- | 21.8 | 90 | 42- | 200 | 0.0 |
| B. CRAPPIE | 1 | 0.15 | - | - | 18.2 | - | - | 500 | - | - | - |
| CARP | 1 | 0.16 | - | - | 41.3 | - | - | 1475 | - | - | - |
| EEL | 11 | 0.32 | 0.04- | 0.61 | 76.8 | 66.0- | 87.7 | 949 | 525- | 1475 | 36.4 |
| F.W. DRUM | 2 | 0.20 | 0.17- | 0.22 | 43.0 | 42.4- | 43.6 | 995 | 940- | 1050 | 0.0 |
| Y. PERCH | 5 | 0.30 | 0.27- | 0.35 | 21.4 | 20.0- | 22.5 | 145 | 120- | 173 | 0.0 |
| W. BASS | 4 | 0.19 | 0.14- | 0.24 | 27.2 | 26.3- | 27.7 | 368 | 345- | 400 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | A | A | B | B | D | D |
| PIKE | - | - | - | - | - | - | A | A | B | B |
| S.M. BASS | - | A | A | A | B | C | D | - | - | - |
| L.M. BASS | - | - | A | A | A | B | B | C | - | - |
| C. CATFISH | - | - | A | A | A | A | B | D | - | - |
| W. PERCH | A | A | A | - | - | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|------------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000000 | 3.92917 | 0.888 | 50 | | 0.33 |
| PIKE | 0.000173 | 1.84067 | 0.634 | 60 | | 0.32 |
| S.M. BASS | 0.000010 | 3.05016 | 0.960 | 0 | | 0.00 |
| L.M. BASS | 0.000016 | 2.71409 | 0.857 | 0 | | 0.00 |
| C. CATFISH | 0.000001 | 3.41664 | 0.977 | 0 | | 0.00 |
| W. PERCH | 0.002620 | 1.44701 | 0.890 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #4, 1976

SAMPLING SITE: BAY OF QUINTE COUNTY : HASTINGS

LAT/LONG:

440 9/7715

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | Σ ≥ .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 20 | 0.36 | 0.03- 0.95 | 28.1 | 16.1- 40.3 | 441 | 64- 1105 | 25.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | A | A | A | A | A | B | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000105 | 2.36184 | 0.638 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #5, 1977
SAMPLING SITE: CORNWALL I. COUNTY: I.R.59
4501/7542
DATA SOURCE: MOE

LAT/LONG:

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|------|---------------|-------|------|--------------|-------|------|--------------|-------|---|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 40 | 0.69 | 0.26- | 1.20 | 53.5 | 37.0- | 71.0 | - | - | - | 77.5 |
| Y. PERCH | * 32 | 0.46 | 0.17- | 1.30 | 21.6 | 16.0- | 29.0 | - | - | - | 25.0 |
| R. BASS | 21 | 0.87 | 0.56- | 1.30 | 19.0 | 15.0- | 21.0 | - | - | - | 100.0 |
| B. BULLHEAD | 12 | 0.25 | 0.15- | 0.41 | 27.2 | 23.0- | 31.0 | - | - | - | 0.0 |
| P. SEED | 14 | 0.32 | 0.16- | 0.71 | 16.8 | 14.5- | 20.0 | - | - | - | 14.3 |
| W. SUCKER | 47 | 0.62 | 0.21- | 1.10 | 45.7 | 31.0- | 56.0 | - | - | - | 76.6 |
| C. CATFISH | 4 | 0.99 | 0.38- | 1.80 | 47.8 | 27.0- | 63.0 | - | - | - | 50.0 |
| W. PERCH | 10 | 0.55 | 0.16- | 1.00 | 21.1 | 17.5- | 24.0 | - | - | - | 60.0 |
| WALLEYE | * 13 | 1.57 | 0.69- | 2.80 | 52.8 | 47.0- | 60.5 | - | - | - | 100.0 |
| DOWFIN | 2 | 0.94 | 0.67- | 1.20 | 58.5 | 57.0- | 60.0 | - | - | - | 100.0 |
| STURGEON | 2 | 0.33 | 0.26- | 0.40 | 53.5 | 53.0- | 54.0 | - | - | - | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | B | B | B | C | C |
| Y. PERCH | A | A | B | B | C | B | D | D | D | - |
| WALLEYE | - | - | - | - | - | B | D | D | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| PIKE | 0.001428 | 1.54365 | 0.760 | 60 | | 0.79 |
| Y. PERCH | 0.000268 | 2.38975 | 0.566 | 0 | | 0.00 |
| WALLEYE | 0.000000 | 4.30393 | 0.725 | 50 | | 1.13 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #5, 1975

SAMPLING SITE: BAINSVILLE COUNTY: GLENGARRY

LAT/LONG: 4511/7425

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥.5 PPM |
|--------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | 12 | 0.62 | 0.32- | 1.73 | 56.2 | 42.0- | 79.6 | 1134 | 379- | 2639 | 50.0 |
| B. CRAPPIE* | 47 | 0.19 | 0.10- | 0.74 | 20.0 | 16.5- | 29.0 | 139 | 62- | 418 | 2.1 |
| P. SEED * | 50 | 0.24 | 0.07- | 0.41 | 16.4 | 13.9- | 19.9 | 114 | 61- | 198 | 0.0 |
| L.M. BASS | 4 | 0.38 | 0.17- | 0.71 | 28.4 | 20.5- | 39.0 | 510 | 134- | 1228 | 25.0 |
| B. BULLHEAD* | 49 | 0.18 | 0.02- | 0.29 | 26.7 | 20.3- | 31.5 | 272 | 100- | 422 | 0.0 |
| Y. PERCH * | 56 | 0.36 | 0.13- | 0.98 | 19.4 | 15.8- | 24.3 | 93 | 48- | 172 | 12.5 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| B. CRAPPIE | A | A | A | A | A | - | - | - | - | - |
| P. SEED | A | A | B | - | - | - | - | - | - | - |
| B. BULLHEAD | - | A | A | A | A | - | - | - | - | - |
| Y. PERCH | A | A | A | B | B | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-------------|----------|---------|-------|----------|----|---------|
| B. CRAPPIE | 0.001248 | 1.66544 | 0.657 | 0 | | 0.00 |
| P. SEED | 0.001099 | 1.90508 | 0.546 | 0 | | 0.00 |
| B. BULLHEAD | 0.000058 | 2.42802 | 0.511 | 0 | | 0.00 |
| Y. PERCH | 0.005337 | 1.40003 | 0.374 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #5, 1975
SAMPLING SITE: CHARLOTTENBURG COUNTY: GLENGARRY LAT/LONG: 4510/74 38
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥0.5 PPM |
|--------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L.M. BASS | 8 | 0.51 | 0.18- | 0.91 | 30.2 | 21.5- | 38.8 | 548 | 216- | 1088 | 37.5 |
| B. CRAPPIE* | 23 | 0.25 | 0.12- | 0.60 | 20.1 | 15.0- | 30.0 | 141 | 50- | 500 | 4.3 |
| PIKE * | 15 | 0.83 | 0.25- | 2.42 | 55.2 | 30.0- | 81.0 | 1178 | 390- | 3430 | 73.3 |
| Y. PERCH * | 48 | 0.34 | 0.20- | 0.70 | 20.2 | 16.6- | 23.2 | 114 | 62- | 168 | 10.4 |
| B. BULLHEAD* | 50 | 0.18 | 0.08- | 0.32 | 26.9 | 21.1- | 35.5 | 300 | 130- | 719 | 0.0 |
| P. SEED * | 49 | 0.23 | 0.12- | 0.50 | 17.0 | 14.5- | 22.1 | 129 | 78- | 275 | 2.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| B. CRAPPIE | A | A | A | A | B | - | - | - | - | - |
| PIKE | - | - | - | A | A | B | B | C | C | D |
| Y. PERCH | A | A | A | B | B | - | - | - | - | - |
| B. BULLHEAD | - | A | A | A | A | A | - | - | - | - |
| P. SEED | A | A | A | - | - | - | - | - | - | - |

- A MERCURY CONCENTRATION < 0.5 PPM
B MERCURY CONCENTRATION $0.5-1.0$ PPM
C MERCURY CONCENTRATION $1.0-1.5$ PPM
D MERCURY CONCENTRATION > 1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-------------|----------|---------|-------|----------|------|---------|
| B. CRAPPIE | 0.002824 | 1.48519 | 0.711 | 0 | 0.00 | |
| PIKE | 0.000351 | 1.90290 | 0.780 | 60 | 0.85 | |
| Y. PERCH | 0.002599 | 1.61021 | 0.440 | 0 | 0.00 | |
| B. BULLHEAD | 0.011393 | 0.83486 | 0.405 | 0 | 0.00 | |
| P. SEED | 0.006916 | 1.23083 | 0.401 | 0 | 0.00 | |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #5, 1975

SAMPLING SITE: GLEN WALTER COUNTY: GLENGARRY

LAT/LONG: 4502/74 37

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥.5 PPM |
|--------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH * | 48 | 0.32 | 0.18- | 0.52 | 20.7 | 17.2- | 26.4 | 122 | 61- | 303 | 4.2 |
| B. BULLHEAD* | 50 | 0.20 | 0.09- | 0.30 | 28.5 | 19.5- | 37.0 | 383 | 121- | 724 | 0.0 |
| PIKE | 3 | 0.73 | 0.40- | 0.91 | 63.4 | 56.7- | 69.0 | 1633 | 1098- | 2168 | 66.7 |
| P. SEED * | 50 | 0.28 | 0.15- | 0.50 | 17.2 | 12.7- | 21.3 | 150 | 53- | 298 | 2.0 |
| B. CRAPPIE | 2 | 0.24 | 0.16- | 0.31 | 23.8 | 21.5- | 26.0 | 227 | 158- | 296 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | - | A | A | A | B | - | - | - | - | - |
| B. BULLHEAD | - | A | A | A | A | A | - | - | - | - |
| P. SEED | A | A | A | - | - | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-------------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.015027 | 0.99808 | 0.430 | 0 | | 0.00 |
| B. BULLHEAD | 0.029322 | 0.56954 | 0.387 | 0 | | 0.00 |
| P. SEED | 0.002757 | 1.60576 | 0.693 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #5, 1970
SAMPLING SITE: GLEN WATLE COUNTY : GLENCARRY LAT/LONG:
4502/7437
DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|------------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 24 | 2.29 | 1.20- 6.00 | 54.4 | 44.0- 73.0 | 2339 | 1162- 4944 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | D | D | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.019890 | 1.17295 | 0.414 | 50 | | 1.96 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #5, 1975

SAMPLING SITE: IROQUOIS

COUNTY: DUNDAS

LAT/LONG: 4451/7519

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER | 29 | 0.44 | 0.16- | 0.68 | 42.4 | 15.6- | 60.0 | 8.92 | 601- | 2258 | 31.0 |
| P' SEED | * 34 | 0.23 | 0.11- | 0.63 | 16.0 | 12.8- | 18.4 | 101 | 54- | 170 | 2.9 |
| PIKE | * 24 | 0.62 | 0.17- | 2.00 | 60.7 | 37.0- | 87.0 | 1666 | 295- | 4124 | 50.0 |
| R. BASS | 12 | 0.37 | 0.22- | 0.70 | 17.9 | 15.5- | 20.0 | 116 | 68- | 162 | 8.3 |
| S.M. BASS | 3 | 0.94 | 0.79- | 1.07 | 37.3 | 36.2- | 39.0 | 838 | 738- | 1003 | 100.0 |
| Y. PERCH | * 27 | 0.40 | 0.19- | 1.11 | 21.4 | 17.6- | 29.5 | 125 | 60- | 315 | 18.5 |
| W. PERCH | 22 | 0.23 | 0.11- | 0.39 | 19.8 | 17.0- | 24.0 | 121 | 68- | 236 | 0.0 |
| B. CRAPPIE* | 49 | 0.19 | 0.06- | 0.45 | 22.0 | 18.8- | 26.6 | 166 | 96- | 342 | 0.0 |
| B. BULLHEAD | 25 | 0.21 | 0.11- | 0.35 | 23.6 | 20.3- | 27.0 | 157 | 97- | 250 | 0.0 |
| L.M. BASS | 1 | 0.60 | - | - | 33.6 | - | - | 723 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| P' SEED | A | A | - | - | - | - | - | - | - | - |
| PIKE | - | - | - | - | A | A | A | B | B | C |
| Y. PERCH | - | A | B | B | C | - | - | - | - | - |
| B. CRAPPIE | - | A | A | A | B | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|------------|----------|---------|-------|----------|----|---------|
| P' SEED | 0.000132 | 2.65999 | 0.582 | 0 | | 0.00 |
| PIKE | 0.000222 | 1.89434 | 0.623 | 60 | | 0.52 |
| Y. PERCH | 0.000110 | 2.65219 | 0.682 | 0 | | 0.00 |
| B. CRAPPIE | 0.000019 | 2.97136 | 0.639 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #5, 1975
SAMPLING SITE: SUMMERSTOWN COUNTY: GLENGARRY LAT/LONG: 4504/74 33
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>= .5 PPM |
|--------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| B. BULLHEAD* | 48 | 0.20 | 0.12- | 0.34 | 30.8 | 22.0- | 35.0 | 452 | 128- | 727 | 0.0 |
| Y. PERCH * | 47 | 0.29 | 0.19- | 0.52 | 21.1 | 18.0- | 26.9 | 133 | 80- | 253 | 2.1 |
| PIKE | 2 | 1.58 | 1.20- | 1.96 | 73.3 | 73.0- | 73.6 | 2405 | 2343- | 2468 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| B. BULLHEAD | - | A | A | A | A | A | - | - | - | - |
| Y. PERCH | - | A | A | A | B | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-------------|----------|---------|-------|----------|----|---------|
| B. BULLHEAD | 0.009139 | 0.89903 | 0.376 | 0 | | 0.00 |
| Y. PERCH | 0.006567 | 1.23629 | 0.467 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ONTARIO #7, 1976

SAMPLING SITE: L. ST. FRANCIS COUNTY : GLENGARRY
4508/7430

LAT/LONG:

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|-----------|------|---------------|------------|--------------|------------|--------------|------------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| W. SUCKER | 15 | 0.51 | 0.20- 0.79 | 48.7 | 43.5- 57.0 | 1611 | 1033- 2862 | 53.3 |
| PIKE | 1 | 1.27 | - - | 75.0 | - - | 2861 | - - | - |
| WALLEYE | * 19 | 1.32 | 0.60- 3.40 | 54.7 | 44.0- 75.0 | 1892 | 803- 4072 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | B | C | D | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000010 | 2.93514 | 0.920 | 50 | | 0.93 |

MERCURY DATA SUMMARIES

LAKE ERIE

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #1, 1977

SAMPLING SITE: PELEE ISLD COUNTY: ESSEX

LAT/LONG: 4147/8240

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | >= .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. BASS | * 29 | 0.12 | 0.01- | 0.32 | 25.5 | 9.0- | 35.0 | 254 | 13- | 661 | 0.0 |
| COHO | * 30 | 0.19 | 0.14- | 0.25 | 50.6 | 43.0- | 69.0 | 1465 | 823- | 4089 | 0.0 |
| WALLEYE | 18 | 0.22 | 0.16- | 0.30 | 43.0 | 39.0- | 48.0 | 873 | 622- | 1287 | 0.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. BASS | A | A | A | A | A | A | - | - | - | - |
| COHO | - | - | - | - | - | A | A | A | A | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|---------|----------|---------|-------|---------|------------|
| W. BASS | 0.000971 | 1.45177 | 0.523 | 0 | 0.00 |
| COHO | 0.006714 | 0.84741 | 0.672 | 0 | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #1, 1977

SAMPLING SITE: POINT PELEE COUNTY: ESSEX

LAT/LONG: 4157/8232

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | 17 | 0.10 | 0.07- | 0.15 | 22.5 | 20.5- | 25.0 | 144 | 99- | 236 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTPY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #1, 1977

SAMPLING SITE: E. SISTER ISLD COUNTY: ESSEX

LAT/LONG: 4149/8252

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|-----|--------------|
| | | MEAN | RANCE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 8 | 0.18 | 0.13- | 0.23 | 37.3 | 30.0- | 45.0 | 535 | 276- | 845 | 0.0 |
| Y. PERCH | 9 | 0.13 | 0.07- | 0.20 | 18.6 | 17.5- | 19.5 | 81 | 66- | 93 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #1, 1977

SAMPLING SITE: COLCHESTER

COUNTY: ESSEX

LAT/LONG: 4159/8256

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|---------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | 4 | 0.30 | 0.19- | 0.45 | 47.8 | 45.0- | 53.0 | 1203 | 910- | 1830 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #1, 1976

SAMPLING SITE: -

COUNTY: ESSEX

LAT/LONG: 4202/8245

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | % >= .5 PPM |
|---------|-------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 195 | 0.31 | 0.09- 1.25 | 36.1 | 24.0- 63.0 | 548 | 125- 3000 | 8.2 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | A | B | B | C | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000454 | 1.79784 | 0.736 | 50 | | 0.52 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #1, 1970

SAMPLING SITE: PELEE PASS. COUNTY: ESSEX

LAT/LONG: 4152/8235

DATA SOURCE: FRE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | % >= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | 1 | 0.98 | - | 48.0 | - | 880 | - | - |
| Y. PERCH | 32 | 0.47 | 0.15- 1.10 | 21.4 | 18.0- 29.0 | 154 | 70- 410 | 37.5 |
| WALLEYE | 8 | 0.39 | 0.15- 0.53 | 25.4 | 23.0- 28.8 | 176 | 110- 230 | 12.5 |
| C. CATFISH* | 5 | 0.85 | 0.56- 1.20 | 33.5 | 28.0- 42.5 | 621 | 310- 1300 | 100.0 |
| F.W. DRUM * | 12 | 0.45 | 0.19- 0.85 | 27.7 | 19.0- 42.5 | 353 | 90- 850 | 41.7 |
| W. BASS * | 44 | 0.69 | 0.11- 2.20 | 24.8 | 15.0- 36.5 | 274 | 50- 760 | 63.6 |
| SMELT | 2 | 0.36 | 0.28- 0.43 | 20.0 | 18.5- 21.5 | 54 | 52- 56 | 0.0 |
| S.M. BASS * | 7 | 0.86 | 0.68- 1.40 | 24.8 | 21.0- 38.4 | 319 | 180- 990 | 100.0 |
| COHO | 1 | 0.16 | - | 27.6 | - | 260 | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| C. CATFISH | - | - | B | L | B | C | D | - | - | - |
| F.W. DRUM | - | A | A | A | E | E | C | - | - | - |
| W. BASS | A | A | B | E | C | D | - | - | - | - |
| S.M. BASS | - | B | B | C | C | D | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|------------|----------|---------|-------|----------|----|---------|
| C. CATFISH | 0.002284 | 1.67917 | 0.940 | 0 | | 0.00 |
| F.W. DRUM | 0.005182 | 1.33024 | 0.833 | 0 | | 0.00 |
| W. BASS | 0.000501 | 2.21517 | 0.740 | 0 | | 0.00 |
| S.M. BASS | 0.024477 | 1.10578 | 0.892 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #2, 1977

SAMPLING SITE: P. ALMA (10M OFF COUNTY: KENT

LAT/LONG: 4211/8215

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|-----|----------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | 3 | 0.05 | 0.03- | 0.07 | 25.2 | 24.5- | 26.0 | 234 | 208- | 258 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #2, 1970

SAMPLING SITE: WHEATLEY COUNTY: KENT

LAT/LONG: 4206/8227

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | ≥ .5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH * | 22 | 0.21 | 0.05- | 0.91 | 19.7 | 16.0- | 31.0 | 113 | 55- | 390 | 4.5 |
| SMELT | 8 | 0.20 | 0.02- | 0.32 | 18.2 | 15.0- | 22.0 | 46 | 17- | 71 | 0.0 |
| F.W. DRUM | 6 | 0.44 | 0.05- | 0.84 | 26.2 | 19.0- | 41.0 | 323 | 80- | 850 | 33.3 |
| ALEWIFE | 7 | 0.03 | 0.02- | 0.05 | 18.1 | 15.0- | 21.0 | 89 | 60- | 120 | 0.0 |
| W. BASS | 7 | 0.74 | 0.25- | 1.50 | 24.5 | 21.5- | 32.0 | 270 | 170- | 580 | 42.9 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | A | A | A | A | E | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | B | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.000134 | 2.40041 | 0.570 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #3, 1977

SAMPLING SITE: PORT STANLEY COUNTY:ELGIN

LAT/LONG: 4240/8113

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| COHO | 20 | 0.15 | 0.08- | 0.24 | 35.5 | 27.0- | 60.0 | 673 | 156- | 2620 | 0.0 |
| Y. PERCH | 27 | 0.05 | 0.01- | 0.09 | 21.8 | 19.0- | 25.0 | 143 | 99- | 215 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #3, 1976

SAMPLING SITE: -

COUNTY: ELCIN

LAT/LONG: 4240/8113

DATA SOURCE: FPD

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| F.W. DRUM * | 8 | 0.15 | 0.05- | 0.43 | 28.6 | 20.0- | 36.0 | 345 | 123- | 575 | 0.0 |
| W. BASS | 1 | 0.05 | - | - | 14.0 | - | - | 65 | - | - | - |
| ALEWIFE | 5 | 0.04 | 0.03- | 0.05 | 14.9 | 12.0- | 17.5 | 178 | 120- | 225 | 0.0 |
| Y. PERCH * | 15 | 0.10 | 0.01- | 0.28 | 22.9 | 13.0- | 34.0 | 294 | 175- | 605 | 0.0 |
| C. SHAL | 2 | 0.03 | 0.03- | 0.03 | 10.5 | 10.0- | 11.0 | 58 | 47- | 69 | 0.0 |
| L. SHINER | 3 | 0.08 | 0.07- | 0.10 | 9.3 | 8.0- | 11.0 | 127 | 95- | 177 | 0.0 |
| SHELT * | 6 | 0.05 | 0.03- | 0.06 | 14.0 | 13.0- | 15.0 | 186 | 162- | 212 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 9-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| F.W. DRUM | - | A | A | A | A | B | - | - | - | - |
| Y. PERCH | A | A | A | A | A | B | - | - | - | - |
| SHELT | A | A | - | - | - | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| F.W. DRUM | 0.000005 | 3.03127 | 0.894 | 0 | | 0.00 |
| Y. PERCH | 0.000004 | 3.09094 | 0.793 | 0 | | 0.00 |
| SHELT | 0.000009 | 3.20457 | 0.846 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #4, 1977

SAMPLING SITE: -

COUNTY: NORFOLK

LAT/LONG: 4240/8010

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| RAINBOW | 14 | 0.24 | 0.15- | 0.34 | 57.5 | 38.5- | 72.5 | 2041 | 688- | 3444 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #4, 1970

SAMPLING SITE: L. POINT BAY COUNTY: NORFOLK

LAT/LONG: 4240/8010

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| F.W. DRUM | 5 | 0.14 | 0.08- | 0.22 | 22.0 | 17.5- | 34.0 | 190 | 60- | 560 | 0.0 |
| Y. PERCH | 16 | 0.13 | 0.04- | 0.35 | 22.3 | 20.0- | 25.5 | 160 | 100- | 240 | 0.0 |
| PIKE | 4 | 0.44 | 0.34- | 0.53 | 62.2 | 53.4- | 78.0 | 1660 | 920- | 3090 | 25.0 |
| S.M. BASS | 5 | 0.18 | 0.11- | 0.23 | 23.8 | 20.0- | 25.0 | 220 | 160- | 260 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ERIE #5, 1977

SAMPLING SITE: EASTERN BASIN COUNTY: -

LAT/LONG: 4245/7930

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %> .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-----------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | * 75 | 0.08 | 0.02- | 0.30 | 19.0 | 12.5- | 27.5 | 101 | 27- | 275 | 0.0 |
| COHO | 9 | 0.10 | 0.06- | 0.12 | 47.7 | 27.5- | 60.0 | 1599 | 216- | 2857 | 0.0 |
| WALLEYE | * 19 | 0.22 | 0.12- | 0.40 | 44.9 | 34.0- | 60.5 | 992 | 289- | 2288 | 0.0 |
| S.M. BASS | * 35 | 0.23 | 0.08- | 0.83 | 31.7 | 16.5- | 43.5 | 516 | 198- | 1333 | 8.6 |
| PIKE | * 30 | 0.30 | 0.13- | 0.79 | 56.1 | 44.5- | 75.0 | 1110 | 580- | 2639 | 13.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | A | A | A | A | A | - | - | - | - | - |
| WALLEYE | - | - | - | - | A | A | A | A | B | - |
| S.M. BASS | A | A | A | A | A | B | B | - | - | - |
| PIKE | - | - | - | - | - | A | A | A | B | E |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD. LEN. | HG | AT STD. |
|-----------|----------|---------|-------|-----------|----|---------|
| Y. PERCH | 0.000173 | 2.03534 | 0.702 | 0 | | 0.00 |
| WALLEYE | 0.000308 | 1.71670 | 0.821 | 50 | | 0.25 |
| S.M. BASS | 0.000027 | 2.58114 | 0.891 | 0 | | 0.00 |
| PIKE | 0.000005 | 2.70114 | 0.637 | 60 | | 0.31 |

MERCURY DATA SUMMARIES

LAKE ST. CLAIR

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ST. CLAIR, 1977

TOWNSHIP: TILBURY

COUNTY: ESSEX

LAT/LONG: 4218/8231

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM | |
|-------------|---|---------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | | |
| CARP | * | 41 | 0.59 | 0.14- | 1.30 | 57.5 | 43.1- | 81.2 | 2891 | 1165- | 8330 | 58.5 |
| C. CATFISH* | | 51 | 0.43 | 0.15- | 1.00 | 49.2 | 22.2- | 67.1 | 1367 | 85- | 3785 | 29.4 |
| S.M. BASS | | 21 | 0.76 | 0.36- | 1.20 | 34.9 | 26.0- | 42.2 | 697 | 250- | 1225 | 90.5 |
| W. BASS | * | 61 | 0.79 | 0.08- | 1.90 | 32.7 | 25.3- | 39.6 | 506 | 210- | 815 | 62.3 |
| WALLEYE | * | 60 | 0.99 | 0.16- | 2.70 | 50.1 | 33.9- | 69.3 | 1243 | 330- | 2830 | 71.7 |
| R. BASS | * | 41 | 0.82 | 0.20- | 1.60 | 21.4 | 16.4- | 26.2 | 201 | 105- | 400 | 82.9 |
| PIKE | | 10 | 1.93 | 0.51- | 3.50 | 75.3 | 54.3- | 94.2 | 2504 | 655- | 5325 | 100.0 |
| Y. PERCH | * | 31 | 0.47 | 0.16- | 1.20 | 24.3 | 17.0- | 32.1 | 185 | 55- | 410 | 35.5 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| CARP | - | - | - | - | - | A | A | B | B | C |
| C. CATFISH | - | A | A | A | A | A | A | B | B | - |
| W. BASS | - | - | A | A | C | D | - | - | - | - |
| WALLEYE | - | - | - | - | A | E | C | D | D | D |
| R. BASS | A | B | C | D | D | - | - | - | - | - |
| Y. PERCH | - | A | A | E | C | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|------------|----------|---------|-------|---------|------------|
| CARP | 0.000321 | 1.82567 | 0.458 | 0 | 0.00 |
| C. CATFISH | 0.000663 | 1.64304 | 0.748 | 0 | 0.00 |
| W. BASS | 0.000000 | 4.78573 | 0.828 | 0 | 0.00 |
| WALLEYE | 0.000011 | 2.87103 | 0.860 | 50 | 0.86 |
| R. BASS | 0.000165 | 2.75540 | 0.700 | 0 | 0.00 |
| Y. PERCH | 0.000144 | 2.49264 | 0.662 | 0 | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ST. CLAIR, 1976

SAMPLING SITE: -

COUNTY: ESSEX & KENT LAT/LONG: 4228/8240

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|-------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 246 | 0.93 | 0.11- | 3.00 | 47.3 | 27.4- | 70.6 | 1278 | 205- | 4087 | 66.3 |
| R. BASS | * 77 | 1.05 | 0.17- | 2.20 | 20.9 | 14.4- | 25.9 | 212 | 63- | 365 | 87.0 |
| W. BASS | * 65 | 0.93 | 0.10- | 2.03 | 31.3 | 18.5- | 46.4 | 594 | 137- | 2114 | 78.5 |
| Y. PERCH | 14 | 0.98 | 0.11- | 2.86 | 22.4 | 17.7- | 26.5 | 159 | 70- | 250 | 71.4 |
| S.M. BASS | * 28 | 1.19 | 0.24- | 3.67 | 35.1 | 17.6- | 46.3 | 802 | 153- | 1600 | 92.9 |
| W. SUCKER | * 23 | 0.83 | 0.06- | 1.90 | 42.5 | 34.6- | 49.9 | 1064 | 580- | 1690 | 69.6 |
| CARP | * 104 | 0.79 | 0.16- | 1.50 | 53.8 | 33.5- | 75.4 | 3444 | 825- | 8855 | 76.0 |
| C. CATFISH | 55 | 0.77 | 0.35- | 1.89 | 53.4 | 22.3- | 67.8 | 2304 | 200- | 3897 | 83.6 |
| PIKE | * 50 | 1.64 | 0.20- | 3.80 | 68.4 | 45.4- | 91.9 | 2393 | 596- | 6000 | 92.0 |
| MUSKIE | 4 | 0.79 | 0.24- | 1.80 | 80.7 | 74.4- | 97.3 | 4629 | 3343- | 7900 | 50.0 |
| L.M. BASS | 16 | 1.34 | 0.89- | 2.10 | 32.0 | 22.9- | 39.6 | 596 | 204- | 1033 | 100.0 |
| B. CRAPPIE* | 48 | 0.69 | 0.22- | 2.00 | 23.3 | 18.0- | 28.4 | 258 | 100- | 432 | 62.5 |
| P. SEED | 4 | 0.57 | 0.35- | 0.77 | 18.8 | 17.0- | 20.0 | 175 | 134- | 198 | 75.0 |
| BLUEGILL | 7 | 0.63 | 0.47- | 0.80 | 19.3 | 15.6- | 21.8 | 197 | 108- | 295 | 71.4 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

LAKE ST. CLAIR, 1976 (CONT'D)

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | A | A | A | B | C | D | D | D |
| R. BASS | A | B | D | D | D | - | - | - | - | - |
| W. BASS | - | A | E | B | B | C | D | - | - | - |
| S.M. BASS | - | A | B | E | C | C | D | - | - | - |
| W. SUCKER | - | - | - | - | A | E | D | - | - | - |
| CARP | - | - | - | A | E | B | B | B | B | C |
| PIKE | - | - | - | - | - | E | C | C | D | D |
| B. CRAPPIE | - | A | B | C | D | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|------------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000280 | 2.05680 | 0.680 | 50 | | 0.87 |
| R. BASS | 0.000632 | 2.40832 | 0.652 | 0 | | 0.00 |
| W. BASS | 0.011015 | 1.23622 | 0.299 | 0 | | 0.00 |
| S.M. BASS | 0.008897 | 1.33550 | 0.492 | 0 | | 0.00 |
| W. SUCKER | 0.000000 | 5.60770 | 0.581 | 0 | | 0.00 |
| CARP | 0.020998 | 0.88771 | 0.288 | 0 | | 0.00 |
| PIKE | 0.001039 | 1.71345 | 0.457 | 60 | | 1.16 |
| B. CRAPPIE | 0.000027 | 3.18438 | 0.713 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ST. CLAIR, 1974

SAMPLING SITE: - COUNTY: ESSEX & KENT LAT/LONG: 4228/8240

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | Σ>=.5 PPM |
|--------------|-----|---------------|-------|------|--------------|-------|------|--------------|-------|-------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH * | 259 | 0.36 | 0.08- | 1.68 | 17.0 | 5.5- | 28.2 | 87 | 2- | 315 | 22.8 |
| F.W. DRUM * | 62 | 0.64 | 0.08- | 4.10 | 28.5 | 19.5- | 47.5 | 297 | 70- | 1295 | 48.4 |
| R.H. SUCKER* | 51 | 0.92 | 0.12- | 2.17 | 37.8 | 23.3- | 55.3 | 899 | 125- | 2845 | 68.6 |
| B. CRAPPIE* | 67 | 0.89 | 0.17- | 3.72 | 23.0 | 13.0- | 29.5 | 247 | 35- | 550 | 76.1 |
| C. CATFISH* | 59 | 0.93 | 0.24- | 3.53 | 48.2 | 26.4- | 65.5 | 1752 | 210- | 4535 | 79.7 |
| CARP * | 67 | 0.69 | 0.09- | 1.52 | 48.0 | 37.5- | 83.3 | 2448 | 1015- | 11577 | 70.1 |
| W. BASS * | 70 | 0.79 | 0.19- | 2.17 | 26.4 | 19.9- | 34.7 | 354 | 115- | 855 | 60.0 |
| P. SEED * | 74 | 0.57 | 0.19- | 1.15 | 17.6 | 13.5- | 20.9 | 158 | 65- | 270 | 58.1 |
| R. BASS * | 69 | 1.11 | 0.22- | 2.42 | 20.2 | 13.4- | 28.0 | 191 | 50- | 365 | 92.8 |
| PIKE * | 50 | 2.47 | 0.90- | 6.75 | 74.1 | 46.7- | 92.7 | 2866 | 690- | 5275 | 100.0 |
| BLUEGILL * | 45 | 0.84 | 0.35- | 1.24 | 19.2 | 12.3- | 23.0 | 191 | 43- | 330 | 86.7 |
| L.M. BASS * | 19 | 1.96 | 0.52- | 4.74 | 32.5 | 18.7- | 41.8 | 567 | 95- | 1220 | 100.0 |
| S.M. BASS * | 45 | 1.50 | 0.55- | 4.80 | 35.0 | 17.5- | 47.8 | 800 | 85- | 1945 | 100.0 |
| W. SUCKER * | 51 | 0.93 | 0.11- | 2.13 | 40.8 | 27.6- | 50.2 | 900 | 46- | 1645 | 72.5 |
| Q.C. SUCKER* | 26 | 0.72 | 0.09- | 1.78 | 39.2 | 33.6- | 43.9 | 1378 | 760- | 2125 | 50.0 |
| WALLEYE * | 590 | 0.98 | 0.10- | 3.15 | 41.8 | 14.3- | 67.7 | 959 | 27- | 3315 | 78.0 |
| B. BULLHEAD | 2 | 1.01 | 0.97- | 1.05 | 32.3 | 31.9- | 32.7 | 436 | 435- | 437 | 100.0 |
| W. CRAPPIE | 2 | 0.23 | 0.17- | 0.29 | 24.8 | 23.0- | 26.5 | 234 | 195- | 273 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

LAKE ST. CLAIR, 1974 (CONT'D)

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | A | A | A | B | B | - | - | - | - | - |
| F.W. DRUM | - | A | A | B | C | D | D | - | - | - |
| R.H. SUCKER | - | - | A | A | B | C | D | D | - | - |
| B. CRAPPIE | A | E | C | D | D | - | - | - | - | - |
| C. CATFISH | - | - | A | A | B | B | C | C | D | - |
| CARP | - | - | - | - | A | B | E | C | C | D |
| W. BASS | - | A | D | C | C | D | - | - | - | - |
| P. SEED | A | E | C | - | - | - | - | - | - | - |
| R. BASS | B | C | D | D | D | - | - | - | - | - |
| PIKE | - | - | - | - | - | C | C | D | D | D |
| BLUEGILL | A | B | C | - | - | - | - | - | - | - |
| L.M. BASS | - | B | E | D | D | D | D | - | - | - |
| S.M. BASS | - | A | B | E | C | D | D | - | - | - |
| W. SUCKER | - | - | A | A | A | C | D | - | - | - |
| Q.C. SUCKER | - | - | - | A | A | D | D | - | - | - |
| WALLEYE | A | A | A | E | B | C | C | D | D | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-------------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.018384 | 1.00755 | 0.729 | 0 | | 0.00 |
| F.W. DRUM | 0.000001 | 4.04546 | 0.864 | 0 | | 0.00 |
| R.H. SUCKER | 0.000051 | 2.63632 | 0.545 | 0 | | 0.00 |
| B. CRAPPIE | 0.000032 | 3.21331 | 0.771 | 0 | | 0.00 |
| C. CATFISH | 0.001991 | 1.55823 | 0.650 | 0 | | 0.00 |
| CARP | 0.000733 | 1.73568 | 0.442 | 0 | | 0.00 |
| W. BASS | 0.000021 | 3.17766 | 0.840 | 0 | | 0.00 |
| P. SEED | 0.002128 | 1.91692 | 0.362 | 0 | | 0.00 |
| R. BASS | 0.000912 | 2.33525 | 0.775 | 0 | | 0.00 |
| PIKE | 0.002127 | 1.62034 | 0.538 | 60 | | 1.62 |
| BLUEGILL | 0.001683 | 2.08847 | 0.739 | 0 | | 0.00 |
| L.M. BASS | 0.000443 | 2.38183 | 0.796 | 0 | | 0.00 |
| S.M. BASS | 0.000752 | 2.10046 | 0.825 | 0 | | 0.00 |
| W. SUCKER | 0.000000 | 4.32781 | 0.553 | 0 | | 0.00 |
| Q.C. SUCKER | 0.000000 | 8.32433 | 0.791 | 0 | | 0.00 |
| WALLEYE | 0.002701 | 1.54910 | 0.839 | 50 | | 1.16 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ST. CLAIR, 1973

SAMPLING SITE: -

DISTRICT: ESSEX & KENT LAT/LONG:

4228/8240

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|--------------|-------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 101 | 2.51 | 0.30- 6.35 | 65.6 | 27.3- 92.5 | 2082 | 132- 5370 | 97.0 |
| W. BASS | * 99 | 1.15 | 0.19- 2.99 | 27.3 | 10.5- 33.5 | 406 | 16- 710 | 85.9 |
| L.M. BASS | * 46 | 1.10 | 0.08- 3.06 | 23.9 | 4.0- 43.0 | 396 | 1- 1325 | 67.4 |
| B. BULLHEAD* | 109 | 0.95 | 0.17- 2.31 | 30.7 | 21.0- 37.0 | 455 | 205- 3365 | 88.1 |
| B. CRAPPIE* | 162 | 0.61 | 0.06- 2.61 | 18.1 | 5.3- 33.5 | 142 | 2- 530 | 57.4 |
| BLUEGILL | * 194 | 0.62 | 0.17- 1.48 | 14.0 | 3.0- 22.0 | 101 | 0- 345 | 53.1 |
| Y. PERCH | * 375 | 0.45 | 0.08- 2.05 | 16.2 | 6.6- 29.0 | 69 | 4- 395 | 30.4 |
| MOONEYE | * 26 | 0.26 | 0.18- 0.42 | 14.5 | 11.2- 29.0 | 50 | 14- 355 | 0.0 |
| E. SHINER | * 48 | 0.23 | 0.12- 0.43 | 7.7 | 5.0- 9.6 | 5 | 1- 14 | 0.0 |
| S. SHINER | * 67 | 0.37 | 0.12- 0.62 | 8.4 | 4.4- 11.0 | 8 | 1- 12 | 6.0 |
| BROOK S. | 27 | 0.16 | 0.11- 0.26 | 6.5 | 6.1- 7.0 | 1 | 1- 2 | 0.0 |
| G. SHINER | * 63 | 0.29 | 0.11- 0.59 | 8.3 | 5.5- 11.5 | 7 | 1- 20 | 9.5 |
| CAR PIKE | 4 | 1.71 | 0.09- 4.36 | 51.2 | 44.2- 61.5 | 219 | 120- 363 | 50.0 |
| RAINBOW | 1 | 0.07 | - | 14.4 | - | 29 | - | - |
| ALEWIFE | * 69 | 0.13 | 0.04- 0.37 | 12.9 | 5.7- 16.5 | 24 | 2- 41 | 0.0 |
| CARP | * 105 | 0.91 | 0.12- 2.64 | 50.1 | 28.0- 74.0 | 2750 | 425- 7037 | 82.9 |
| R.H. SUCKER* | 51 | 1.24 | 0.08- 6.58 | 37.6 | 26.5- 60.0 | 902 | 290- 3750 | 72.5 |
| WALLEYE | * 291 | 1.14 | 0.13- 4.99 | 40.2 | 13.0- 67.5 | 853 | 22- 3095 | 79.7 |
| T. PERCH | * 10 | 0.25 | 0.14- 0.50 | 6.7 | 5.7- 9.0 | 4 | 2- 9 | 10.0 |
| CRAYFISH | 1 | 0.14 | - | 5.2 | - | 3 | - | - |
| W. CRAPPIE* | 10 | 0.32 | 0.07- 1.16 | 11.2 | 5.6- 24.0 | 46 | 2- 201 | 20.0 |
| B. SHINER | 6 | 0.30 | 0.17- 0.39 | 4.3 | 3.9- 4.9 | 1 | 1- 1 | 0.0 |
| P. SEED | * 136 | 0.68 | 0.13- 1.63 | 15.5 | 7.5- 20.5 | 117 | 10- 280 | 69.9 |
| S.M. BASS | * 66 | 1.37 | 0.43- 3.50 | 33.2 | 22.5- 49.5 | 738 | 210- 2150 | 93.9 |
| CLAM | 7 | 0.16 | 0.05- 0.26 | 8.1 | 7.1- 8.8 | 49 | 32- 69 | 0.0 |
| G. SHAD | * 9 | 0.09 | 0.05- 0.12 | 24.5 | 3.7- 34.0 | 366 | 1- 730 | 0.0 |
| F.W. DRUM | * 102 | 0.84 | 0.14- 2.51 | 31.7 | 18.0- 56.0 | 431 | 65- 1860 | 74.5 |
| BOWFIN | 4 | 2.65 | 1.10- 4.54 | 51.9 | 45.5- 60.0 | 1343 | 870- 2028 | 100.0 |
| R. BASS | * 112 | 1.14 | 0.23- 3.84 | 19.5 | 9.1- 27.0 | 179 | 17- 420 | 90.2 |
| W. SUCKER | * 51 | 1.24 | 0.22- 3.10 | 40.8 | 7.8- 49.0 | 979 | 6- 1655 | 82.4 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

LAKE ST. CLAIR, 1973 (CONT'D)

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | A | B | B | C | D | D | D | D |
| W. BASS | A | B | B | C | D | D | - | - | - | - |
| L.M. BASS | A | B | C | C | D | D | D | - | - | - |
| B. BULLHEAD | - | A | A | B | C | D | - | - | - | - |
| B. CRAPPIE | A | B | B | B | C | D | - | - | - | - |
| BLUEGILL | E | B | C | - | - | - | - | - | - | - |
| Y. PERCH | A | B | D | E | C | - | - | - | - | - |
| MOONEYE | A | A | A | A | A | - | - | - | - | - |
| E. SHINER | B | - | - | - | - | - | - | - | - | - |
| S. SHINER | B | - | - | - | - | - | - | - | - | - |
| G. SHINER | A | - | - | - | - | - | - | - | - | - |
| ALEWIFE | A | A | - | - | - | - | - | - | - | - |
| CARP | - | - | A | A | A | B | B | C | D | D |
| R.H. SUCKER | - | - | A | A | B | D | D | D | - | - |
| WALLEYE | A | A | A | B | E | C | D | D | D | - |
| T. PERCH | C | - | - | - | - | - | - | - | - | - |
| W. CRAPPIE | A | B | E | E | C | - | - | - | - | - |
| P. SEED | B | B | C | - | - | - | - | - | - | - |
| S.M. BASS | - | A | B | E | C | D | D | - | - | - |
| G. SHAD | A | A | A | A | A | A | - | - | - | - |
| F.W. DRUM | - | A | A | B | E | D | D | D | - | - |
| R. BASS | B | C | D | D | D | - | - | - | - | - |
| W. SUCKER | A | B | B | D | B | C | C | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-------------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000685 | 1.92993 | 0.679 | 60 | | 1.85 |
| W. BASS | 0.003406 | 1.71670 | 0.670 | 0 | | 0.00 |
| L.M. BASS | 0.011234 | 1.39258 | 0.913 | 0 | | 0.00 |
| B. BULLHEAD | 0.000009 | 3.35138 | 0.511 | 0 | | 0.00 |
| B. CRAPPIE | 0.022571 | 1.09940 | 0.698 | 0 | | 0.00 |
| BLUEGILL | 0.032638 | 1.08347 | 0.794 | 0 | | 0.00 |
| Y. PERCH | 0.010855 | 1.29519 | 0.626 | 0 | | 0.00 |
| MOONEYE | 0.072519 | 0.47228 | 0.488 | 0 | | 0.00 |
| E. SHINER | 0.009187 | 1.55530 | 0.582 | 0 | | 0.00 |
| S. SHINER | 0.057676 | 0.84750 | 0.398 | 0 | | 0.00 |
| G. SHINER | 0.064054 | 0.67489 | 0.306 | 0 | | 0.00 |
| ALEWIFE | 0.027968 | 0.55848 | 0.304 | 0 | | 0.00 |
| CARP | 0.000322 | 1.99478 | 0.469 | 0 | | 0.00 |
| R.H. SUCKER | 0.000002 | 3.64218 | 0.669 | 0 | | 0.00 |
| WALLEYE | 0.001044 | 1.85978 | 0.806 | 50 | | 1.51 |
| T. PERCH | 0.006256 | 1.92728 | 0.691 | 0 | | 0.00 |
| W. CRAPPIE | 0.009753 | 1.35269 | 0.838 | 0 | | 0.00 |
| P. SEED | 0.016408 | 1.32296 | 0.571 | 0 | | 0.00 |
| S.M. BASS | 0.000210 | 2.47760 | 0.794 | 0 | | 0.00 |
| G. SHAD | 0.026423 | 0.40078 | 0.945 | 0 | | 0.00 |
| F.W. DRUM | 0.000145 | 2.46915 | 0.742 | 0 | | 0.00 |
| R. BASS | 0.000738 | 2.44291 | 0.831 | 0 | | 0.00 |
| W. SUCKER | 0.028220 | 0.97858 | 0.378 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ST. CLAIR, 1972

SAMPLING SITE: -

DISTRICT: ESSEX & KENT LAT/LONG:

4228/8240

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>= .5 PPM |
|--------------|-------|---------------|-------|-------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 436 | 1.27 | 0.13- | 7.10 | 33.5 | 12.2- | 68.5 | 581 | 15- | 3100 | 82.6 |
| PIKE | 38 | 4.29 | 2.30- | 9.90 | 71.3 | 56.0- | 85.2 | 2479 | 1080- | 4535 | 100.0 |
| C. CATFISH* | 63 | 1.25 | 0.53- | 2.80 | 50.2 | 42.8- | 61.7 | 1781 | 910- | 3165 | 100.0 |
| BOWFIN | 17 | 4.22 | 0.52- | 10.00 | 52.2 | 39.2- | 59.0 | 1407 | 535- | 1955 | 100.0 |
| P' SEED | * 49 | 1.19 | 0.21- | 2.80 | 16.8 | 10.1- | 20.5 | 142 | 30- | 250 | 93.9 |
| L.M. BASS | * 12 | 2.74 | 0.66- | 6.80 | 31.6 | 23.5- | 41.2 | 606 | 210- | 1360 | 100.0 |
| Y. PERCH | * 357 | 0.90 | 0.05- | 3.30 | 17.2 | 5.0- | 28.9 | 87 | 1- | 300 | 67.2 |
| R. BASS | * 315 | 1.88 | 0.22- | 5.70 | 18.9 | 11.6- | 27.5 | 163 | 30- | 410 | 99.0 |
| BLUEGILL | 16 | 1.20 | 0.69- | 1.50 | 17.9 | 15.0- | 20.5 | 153 | 90- | 235 | 100.0 |
| B. CRAPPIE* | 39 | 1.08 | 0.23- | 2.60 | 19.9 | 11.0- | 29.5 | 177 | 20- | 510 | 76.9 |
| Y. BULLHEAD | 4 | 2.88 | 1.40- | 3.90 | 29.8 | 25.5- | 32.5 | 424 | 230- | 550 | 100.0 |
| B. BULLHEAD | 6 | 1.10 | 0.58- | 1.50 | 31.2 | 27.2- | 35.2 | 435 | 275- | 545 | 100.0 |
| CARP | 31 | 1.06 | 0.31- | 2.30 | 49.7 | 36.5- | 60.4 | 2657 | 1035- | 4865 | 83.9 |
| S.M. BASS | * 87 | 2.40 | 0.30- | 6.70 | 33.4 | 19.5- | 48.2 | 696 | 115- | 1760 | 98.9 |
| Q.C. SUCKER* | 7 | 1.46 | 0.30- | 3.80 | 39.6 | 33.1- | 45.0 | 1542 | 925- | 2115 | 71.4 |
| R.H. SUCKER* | 30 | 1.74 | 0.07- | 9.10 | 37.4 | 27.2- | 55.4 | 913 | 310- | 3095 | 83.3 |
| W. SUCKER | 36 | 1.39 | 0.25- | 4.00 | 41.8 | 34.5- | 49.8 | 1033 | 585- | 1465 | 91.7 |
| W. BASS | * 55 | 2.01 | 0.34- | 5.50 | 28.1 | 20.0- | 37.3 | 430 | 120- | 970 | 92.7 |
| F.W. DRUM | * 47 | 0.69 | 0.05- | 1.90 | 29.1 | 18.6- | 49.8 | 322 | 50- | 1265 | 61.7 |
| G. SHAD | 1 | 0.10 | - | - | 26.2 | - | - | 265 | - | - | - |
| EURBOT | 2 | 4.05 | 3.30- | 4.80 | 64.4 | 58.7- | 70.0 | 1933 | 1315- | 2550 | 100.0 |
| MUSKIE | 1 | 5.00 | - | - | 76.7 | - | - | 2930 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

LAKE ST. CLAIR, 1972 (CONT'D)

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | A | B | B | B | C | D | D | D | D | - |
| C. CATFISH | - | - | - | - | - | B | C | D | D | - |
| P. SEED | B | C | D | - | - | - | - | - | - | - |
| L.M. BASS | - | - | C | D | D | D | - | - | - | - |
| Y. PERCH | B | B | B | C | C | - | - | - | - | - |
| R. BASS | C | D | D | D | D | - | - | - | - | - |
| E. CRAPPIE | B | B | C | D | D | - | - | - | - | - |
| S.M. BASS | - | C | C | D | D | D | D | - | - | - |
| Q.C. SUCKER | - | - | - | A | B | D | D | - | - | - |
| R.H. SUCKER | - | - | A | B | B | D | D | D | - | - |
| W. BASS | - | B | C | D | D | D | - | - | - | - |
| F.W. DRUM | - | A | A | B | C | D | D | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-------------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.012817 | 1.27145 | 0.793 | 50 | | 1.85 |
| C. CATFISH | 0.000959 | 1.81428 | 0.401 | 0 | | 0.00 |
| P. SEED | 0.051162 | 1.08145 | 0.348 | 0 | | 0.00 |
| L.M. BASS | 0.001207 | 2.20246 | 0.670 | 0 | | 0.00 |
| Y. PERCH | 0.088294 | 0.73786 | 0.384 | 0 | | 0.00 |
| R. BASS | 0.004181 | 2.04624 | 0.697 | 0 | | 0.00 |
| B. CRAPPIE | 0.004184 | 1.80862 | 0.693 | 0 | | 0.00 |
| S.M. BASS | 0.009032 | 1.56908 | 0.619 | 0 | | 0.00 |
| Q.C. SUCKER | 0.000000 | 6.33466 | 0.835 | 0 | | 0.00 |
| R.H. SUCKER | 0.000007 | 3.29134 | 0.525 | 0 | | 0.00 |
| W. BASS | 0.000010 | 3.60655 | 0.697 | C | | 0.00 |
| F.W. DRUM | 0.000012 | 3.17968 | 0.652 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ST. CLAIR, 1971

SAMPLING SITE: - DISTRICT: ESSEX & KENT LAT/LONG:

4228/8240

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|-------|---------------|-------|-------|--------------|-------|-------|--------------|-------|-------|-----------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 350 | 1.78 | 0.13- | 13.08 | 35.1 | 15.0- | 63.1 | 599 | 38- | 2365 | 96.0 |
| Y. PERCH | * 70 | 1.51 | 0.13- | 3.50 | 16.0 | 6.8- | 31.2 | 99 | 4- | 390 | 90.0 |
| R. BASS | * 40 | 3.04 | 1.40- | 6.30 | 20.4 | 14.5- | 25.2 | 211 | 80- | 375 | 100.0 |
| MUSKIE | * 8 | 7.08 | 1.80- | 23.30 | 91.3 | 71.5- | 116.5 | 6639 | 2930- | 13500 | 100.0 |
| PIKE | 43 | 3.86 | 0.29- | 8.45 | 66.0 | 50.4- | 85.5 | 2155 | 905- | 6020 | 97.7 |
| S.M. BASS | * 79 | 3.34 | 1.12- | 7.20 | 32.8 | 19.9- | 39.9 | 670 | 130- | 1175 | 100.0 |
| BOWFIN | * 13 | 5.99 | 0.75- | 11.60 | 53.7 | 39.2- | 65.5 | 1532 | 535- | 2790 | 100.0 |
| G. SHAD | 3 | 0.16 | 0.04- | 0.28 | 13.3 | 12.0- | 15.0 | 31 | 18- | 45 | 0.0 |
| CARP | * 29 | 1.70 | 0.30- | 3.34 | 48.6 | 30.0- | 58.2 | 2436 | 550- | 4065 | 93.1 |
| W. BASS | 1 | 1.36 | - | - | 28.0 | - | - | 430 | - | - | - |
| B. BULLHEAD | 8 | 1.67 | 1.07- | 2.85 | 29.7 | 25.7- | 32.9 | 371 | 210- | 515 | 100.0 |
| F.W. DRUM | * 30 | 1.32 | 0.18- | 3.57 | 32.6 | 21.2- | 41.5 | 459 | 105- | 1015 | 90.0 |
| C. CATFISH | 13 | 1.50 | 0.76- | 2.79 | 52.0 | 48.3- | 56.2 | 2026 | 1350- | 2965 | 100.0 |
| P. SEED | 6 | 1.67 | 1.39- | 2.25 | 14.1 | 10.1- | 18.7 | 88 | 30- | 215 | 100.0 |
| L.M. BASS | 1 | 3.15 | - | - | 30.1 | - | - | 490 | - | - | - |
| BLUEGILL | 9 | 1.19 | 0.69- | 1.48 | 17.5 | 15.0- | 18.8 | 141 | 90- | 175 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | B | B | C | C | D | D | D | D | D | - |
| Y. PERCH | C | D | D | D | D | - | - | - | - | - |
| R. BASS | D | D | D | D | D | - | - | - | - | - |
| MUSKIE | - | - | - | - | - | - | - | D | D | D |
| S.M. BASS | - | C | D | D | D | D | - | - | - | - |
| BOWFIN | - | - | - | - | B | D | D | D | D | - |
| CARP | - | - | - | B | B | C | D | D | - | - |
| F.W. DRUM | - | A | B | B | C | D | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

LAKE ST. CLAIR, 1971 (CONT'D)

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.014200 | 1.32397 | 0.698 | 50 | | 2.52 |
| Y. PERCH | 0.079078 | 1.02717 | 0.715 | 0 | | 0.00 |
| R. BASS | 0.050472 | 1.34175 | 0.424 | 0 | | 0.00 |
| MUSKIE | 0.000000 | 3.69449 | 0.813 | 0 | | 0.00 |
| S.M. BASS | 0.002020 | 2.10025 | 0.663 | 0 | | 0.00 |
| BOWFIN | 0.000000 | 4.48863 | 0.700 | 0 | | 0.00 |
| CARP | 0.002179 | 1.68197 | 0.416 | 0 | | 0.00 |
| F.W. DRUM | 0.000534 | 2.19829 | 0.487 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE ST. CLAIR, 1970

SAMPLING SITE: -

DISTRICT: ESSEX & KENT LAT/LONG: 4228/8240

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | $\bar{x} \geq 0.5$ PPM |
|-------------|-------|---------------|-------------|--------------|------------|--------------|------------|---------------------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| R. BASS | 35 | 3.44 | 0.97- 10.70 | 19.8 | 12.6- 29.7 | 185 | 41- 345 | 100.0 |
| BLUEGILL | 16 | 2.19 | 1.20- 3.20 | 14.7 | 11.3- 19.8 | 88 | 25- 220 | 100.0 |
| WALLEYE | * 611 | 2.11 | 0.23- 14.00 | 34.9 | 11.7- 94.0 | 640 | 13- 3010 | 99.0 |
| Y. PERCH | * 245 | 1.94 | 0.02- 8.20 | 21.2 | 11.7- 31.5 | 136 | 8- 525 | 95.5 |
| PIKE | 29 | 4.38 | 0.61- 9.90 | 63.6 | 43.0- 82.8 | 1932 | 500- 3870 | 100.0 |
| F.W. DRUM | 5 | 1.13 | 0.76- 1.70 | 22.6 | 21.0- 26.6 | 152 | 100- 240 | 100.0 |
| C. CATFISH | 51 | 1.06 | 0.33- 3.00 | 34.9 | 15.4- 56.7 | 1273 | 50- 2722 | 84.3 |
| S.M. BASS | * 23 | 2.98 | 1.00- 6.90 | 32.4 | 22.0- 44.0 | 640 | 220- 1430 | 100.0 |
| W. BASS | * 57 | 2.17 | 0.47- 5.70 | 25.5 | 11.5- 33.4 | 312 | 21- 700 | 98.2 |
| STURGEON | 1 | 0.51 | - - | 67.3 | - - | 2310 | - - | - |
| Q.C. SUCKER | 4 | 2.25 | 1.30- 4.10 | 39.5 | 37.5- 42.5 | 1329 | 1180- 1645 | 100.0 |
| CARP | 8 | 1.12 | 0.38- 2.20 | 52.5 | 35.3- 73.5 | 3114 | 930- 8310 | 75.0 |
| P. SEED | 29 | 2.10 | 0.68- 4.70 | 18.2 | 17.1- 20.0 | 170 | 105- 214 | 100.0 |
| L.M. BASS | 2 | 3.90 | 2.90- 4.90 | 35.7 | 32.8- 38.6 | 785 | 570- 1000 | 100.0 |
| B. BULLHEAD | 4 | 2.80 | 0.51- 4.50 | 29.9 | 28.2- 32.0 | 325 | 260- 450 | 100.0 |
| MUSKIE | 6 | 3.72 | 1.70- 5.10 | 67.7 | 51.4- 95.8 | 2430 | 700- 5980 | 100.0 |
| B. CRAPPIE | 25 | 3.29 | 1.00- 6.10 | 22.8 | 16.1- 28.4 | 231 | 61- 517 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | C | C | D | D | D | D | D | D | D | D |
| Y. PERCH | B | C | D | D | D | - | - | - | - | - |
| S.M. BASS | - | C | D | D | D | D | D | - | - | - |
| W. BASS | C | D | D | D | D | D | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.166900 | 0.68781 | 0.537 | 50 | | 2.46 |
| Y. PERCH | 0.014170 | 1.54308 | 0.329 | 0 | | 0.00 |
| S.M. BASS | 0.011960 | 1.56392 | 0.623 | 0 | | 0.00 |
| W. BASS | 0.102362 | 0.89712 | 0.360 | 0 | | 0.00 |

MERCURY DATA SUMMARIES

LAKE HURON

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-3, 1977
SAMPLING SITE: CAMP HENRY DISTRICT: PARRY SOUND LAT/LONG:
4541/8036
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 22 | 0.38 | 0.19- 0.97 | 62.3 | 34.5- 87.6 | 1896 | 600- 5525 | 18.2 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | A | A | A | B |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.001603 | 1.29818 | 0.540 | 60 | | 0.33 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-3, 1977
 SAMPLING SITE; DAVEY ISLAND DISTRICT; PARRY SOUND LAT/LONG: 4518/8015
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (G.) | | % >= .5 PPM |
|-------------|---|---------------|------------|--------------|------------|-------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 7 | 0.31 | 0.14- 0.70 | 30.3 | 25.0- 44.6 | 607 | 250- 1800 | 28.6 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | - | A | A | A | B | C | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000026 | 2.71330 | 0.940 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-3, 1977
SAMPLING SITE: FRANKLIN ISLE DISTRICT: PARRY SOUND LAT/LONG: 4524/8020
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 19 | 0.27 | 0.15- 0.35 | 26.4 | 22.0- 30.1 | 324 | 200- 450 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | A | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000990 | 1.70960 | 0.565 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-3, 1976

SAMPLING SITE: FREDERICK IN. DISTRICT: PARRY SOUND LAT/LONG: 4530/8029

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|---------|------|---------------|-----------|--------------|-----------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 22 | 0.55 | 0.41-1.30 | 53.9 | 49.5-70.5 | 1702 | 1089-4196 | 54.5 |
| PIKE | 15 | 0.54 | 0.33-0.71 | 77.0 | 64.0-94.5 | 3360 | 2041-6577 | 73.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | A | B | B | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000012 | 2.67600 | 0.850 | 50 | | 0.44 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-3, 1977
SAMPLING SITE;HALO ISLAND DISTRICT;PARRY SOUND LAT/LONG:4507/8003
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 19 | 0.38 | 0.10- 0.61 | 32.7 | 19.5- 41.2 | 584 | 100- 1100 | 31.6 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | A | B | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000093 | 2.36635 | 0.934 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-3, 1976

SAMPLING SITE: MOON R.

DISTRICT: PARRY SOUND

LAT/LONG: 4506/7956

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | Σ ≥ .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|------------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 16 | 1.22 | 0.28- 2.00 | 63.0 | 49.4- 77.5 | 2640 | 1361- 4281 | 93.8 |
| PIKE | * 14 | 0.67 | 0.40- 1.00 | 64.9 | 49.5- 82.0 | 1898 | 737- 3742 | 92.9 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | A | B | C | D | D |
| PIKE | - | - | - | - | - | A | B | B | B | B |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000017 | 2.66716 | 0.633 | 50 | | 0.59 |
| PIKE | 0.018211 | 0.86174 | 0.718 | 60 | | 0.62 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-3, 1977
 SAMPLING SITE: PANCAKE I. DISTRICT: PARRY SOUND LAT/LONG: 4520/8019
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | % >= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| Y. PERCH | * 30 | 0.22 | 0.07- 0.39 | 23.3 | 20.5- 27.5 | 202 | 140- 370 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | - | A | A | B | C | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.000001 | 4.08892 | 0.697 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-3, 1977
SAMPLING SITE: PRISQUE BAY DISTRICT: PARRY SOUND LAT/LONG: 4541/8036
DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (G.) | | % >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|-------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 30 | 0.57 | 0.28- 1.20 | 53.7 | 43.3- 73.5 | 1921 | 950- 4350 | 63.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | A | B | B | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000047 | 2.35055 | 0.755 | 50 | | 0.46 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-3, 1976
SAMPLING SITE: RAFT I. DISTRICT: PARRY SOUND LAT/LONG: 4530/8029
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| PIKE | * 35 | 0.46 | 0.21- | 0.74 | 70.7 | 51.0- | 94.5 | 2668 | 1000- | 6577 | 40.0 |
| WALLEYE | * 15 | 0.64 | 0.28- | 1.30 | 53.5 | 45.0- | 70.5 | 1943 | 1000- | 4196 | 60.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | - | - | A | A | B | B |
| WALLEYE | - | - | - | - | - | A | B | C | D | D |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.000471 | 1.60975 | 0.712 | 60 | | 0.34 |
| WALLEYE | 0.000012 | 2.71067 | 0.898 | 50 | | 0.49 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON GB#3, 1977
 SAMPLING SITE: SANDY ISLAND DISTRICT: PARRY SOUND LAT/LONG: 4516/8016
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 40 | 0.24 | 0.11- 0.47 | 26.5 | 17.8- 37.0 | 275 | 114- 560 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | A | A | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.008560 | 1.00292 | 0.619 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-3, 1977
SAMPLING SITE: SEGUIN R. DISTRICT: PARRY SOUND LAT/LONG: 4520/8002
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|---------|----|---------------|-------|------|--------------|-------|------|--------------|-------|----|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| SHELT | 10 | 0.10 | 0.07- | 0.14 | 15.8 | 13.8- | 18.5 | 24 | 13- | 40 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-3, 1977

SAMPLING SITE: SHAWANAGA INLTDISTRICT: PARRY SOUND LAT/LONG: 4530/8025

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (CM.) | | %>= .5 PPM |
|-------------|----|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| S.M. BASS * | 22 | 0.28 | 0.14- 0.85 | 25.8 | 20.4- 41.7 | 343 | 150- 1050 | 13.6 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| S.M. BASS | - | A | A | A | B | C | D | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
 B MERCURY CONCENTRATION 0.5-1.0 PPM
 C MERCURY CONCENTRATION 1.0-1.5 PPM
 D MERCURY CONCENTRATION >1.5 PPM
 - MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| S.M. BASS | 0.000043 | 2.66554 | 0.871 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-4, 1977
 SAMPLING SITE; GIANF'S TOMB COUNTY: SIMCOE LAT/LONG: 4455/8000
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|-----|---------------|------------|--------------|------------|--------------|------------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 7 | 0.68 | 0.31- 1.00 | 54.7 | 49.0- 60.5 | 2014 | 1450- 2600 | 85.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | A | B | C | D | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG=A0*L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000000 | 4.14289 | 0.867 | 50 | | 0.44 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB4, 1974

SAMPLING SITE: NOTTAWASAGA COUNTY: SIMCOE

LAT/LONG: 44 32/8 000

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥0.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| RAINBOW | 7 | 0.18 | 0.06- | 0.30 | 53.5 | 34.3- | 69.8 | 2428 | 501- | 5188 | 0.0 |
| W. SUCKER * | 10 | 0.16 | 0.11- | 0.21 | 39.8 | 36.1- | 42.6 | 790 | 599- | 969 | 0.0 |
| Y. PERCH * | 9 | 0.31 | 0.19- | 0.45 | 28.1 | 26.5- | 31.0 | 312 | 253- | 428 | 0.0 |
| WALLEYE | 3 | 0.44 | 0.28- | 0.72 | 54.2 | 45.9- | 62.2 | 2202 | 1359- | 3161 | 33.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | - | - | - | A | A | A | - | - | - |
| Y. PERCH | - | - | A | A | B | - | - | - | - | - |

- A. MERCURY CONCENTRATION <0.5 PPM
- B. MERCURY CONCENTRATION 0.5-1.0 PPM
- C. MERCURY CONCENTRATION 1.0-1.5 PPM
- D. MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| W. SUCKER | 0.000001 | 3.21636 | 0.887 | 0 | | 0.00 |
| Y. PERCH | 0.000000 | 4.39617 | 0.783 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB4, 1974

SAMPLING SITE: OWEN SOUND COUNTY: GREY

LAT/LONG: 44 34/8056

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | Σ ≥ .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| RAINBOW | 10 | 0.19 | 0.04- | 0.34 | 52.6 | 28.4- | 70.8 | 2270 | 279- | 4803 | 0.0 |
| W. SUCKER | 10 | 0.11 | 0.07- | 0.13 | 37.9 | 33.4- | 41.2 | 675 | 415- | 940 | 0.0 |
| Y. PERCH | 10 | 0.29 | 0.21- | 0.41 | 27.2 | 24.7- | 29.0 | 268 | 202- | 368 | 0.0 |
| SPLAKE | 1 | 0.19 | - | - | 35.7 | - | - | 453 | - | - | - |
| B. TROUT | 1 | 0.24 | - | - | 54.0 | - | - | 1880 | - | - | - |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #CB-4, 1977
 SAMPLING SITE: PORT SEVERN COUNTY: SIMCOE LAT/LONG: 4448/7943
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CI.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 16 | 1.07 | 0.26- 1.60 | 61.7 | 42.0- 78.2 | 2773 | 750- 5550 | 87.5 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | - | - | A | B | C | D | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000002 | 3.14862 | 0.922 | 50 | | 0.51 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB-4, 1977
SAMPLING SITE; ST. VINCENT COUNTY : GREY LAT/LONG:
4442/8035
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|---------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| SPLAKE | * 33 | 0.12 | 0.04- | 0.29 | 34.1 | 23.7- | 48.7 | 609 | 125- | 1700 | 0.0 |
| RAINBOW | * 20 | 0.23 | 0.01- | 0.54 | 52.6 | 21.2- | 68.5 | 1593 | 100- | 3000 | 5.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|--|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 | |
| SPLAKE | - | - | A | A | A | A | A | - | - | - | |
| RAINBOW | - | A | A | A | A | A | A | A | B | - | |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|------|---------|
| SPLAKE | 0.000069 | 2.08443 | 0.813 | 0 | 0.00 | |
| RAINBOW | 0.000001 | 3.01460 | 0.940 | 0 | 0.00 | |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #GB4, 1974

SAMPLING SITE: THORNBURY COUNTY: GREY

LAT/LONG: 44 34/8 026

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| RAINBOW | * 27 | 0.19 | 0.04- | 0.56 | 52.6 | 28.4- | 70.8 | 2251 | 279- | 5188 | 3.7 |
| W. SUCKER | * 30 | 0.12 | 0.06- | 0.21 | 38.2 | 32.2- | 42.6 | 681 | 373- | 969 | 0.0 |
| Y. PERCH | * 29 | 0.27 | 0.13- | 0.45 | 27.4 | 23.5- | 31.0 | 286 | 178- | 428 | 0.0 |
| SPLAKE | 1 | 0.19 | - | - | 35.7 | - | - | 453 | - | - | - |
| B. TROUT | 1 | 0.24 | - | - | 54.0 | - | - | 1880 | - | - | - |
| WALLEYE | 3 | 0.44 | 0.28- | 0.72 | 54.2 | 45.9- | 62.2 | 2202 | 1359- | 3161 | 33.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| RAINBOW | - | - | - | A | A | A | A | A | A | A |
| W. SUCKER | - | - | - | A | A | A | A | - | - | - |
| Y. PERCH | - | - | A | A | B | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| RAINBOW | 0.000221 | 1.67245 | 0.694 | 0 | | 0.00 |
| W. SUCKER | 0.000005 | 2.77240 | 0.753 | 0 | | 0.00 |
| Y. PERCH | 0.000025 | 2.79411 | 0.606 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #H3, 1974

SAMPLING SITE: DOUGLAS PT. COUNTY: BRUCE

LAT/LONG: 4419/8137

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ 0.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER * | 10 | 0.23 | 0.13- | 0.45 | 44.7 | 40.9- | 51.1 | 1109 | 767- | 1682 | 0.0 |
| RAINBOW * | 9 | 0.15 | 0.10- | 0.26 | 56.4 | 45.4- | 65.6 | 2545 | 1374- | 4120 | 0.0 |
| PIKE * | 11 | 0.38 | 0.19- | 0.49 | 77.8 | 56.2- | 85.4 | 3573 | 2338- | 4908 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | - | - | - | - | A | B | B | - | - |
| RAINBOW | - | - | - | - | - | A | A | A | A | - |
| PIKE | - | - | - | - | - | - | A | A | A | A |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| W. SUCKER | 0.000000 | 3.88254 | 0.727 | 0 | | 0.00 |
| RAINBOW | 0.000006 | 2.52201 | 0.832 | 0 | | 0.00 |
| PIKE | 0.000063 | 1.99851 | 0.940 | 60 | | 0.22 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #H-3, 1976
SAMPLING SITE: SAUCEEN COUNTY: BRUCE LAT/LONG: 44 30/8122
DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| RAINBOW | * 12 | 0.34 | 0.08- 0.56 | 60.4 | 34.0- 75.5 | 3590 | 710- 5720 | 25.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| RAINBOW | - | - | - | - | A | A | A | A | A | E |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| RAINBOW | 0.000048 | 2.12985 | 0.721 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #H-3, 1975
 SAMPLING SITE: SAUGEEN COUNTY: BRUCE LAT/LONG: 44 30/8122
 DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-------------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| COHO | * 12 | 0.38 | 0.15- 0.53 | 78.6 | 53.0- 91.0 | 7290 | 2043- 11350 | 8.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| COHO | - | - | - | - | - | - | A | A | A | A |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| COHO | 0.000117 | 1.84577 | 0.860 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #H4, 1974

SAMPLING SITE: GODERICH

COUNTY: HURON

LAT/LONG: 4 345/814 3

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | Σ ≥ .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| RAINBOW * | 10 | 0.18 | 0.06- | 0.31 | 57.9 | 40.3- | 69.7 | 2589 | 785- | 4522 | 0.0 |
| W. SUCKER * | 10 | 0.14 | 0.10- | 0.23 | 39.5 | 34.9- | 42.4 | 735 | 479- | 931 | 0.0 |
| Y. PERCH | 10 | 0.22 | 0.16- | 0.25 | 23.5 | 22.1- | 26.2 | 163 | 140- | 228 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| RAINBOW | - | - | - | - | - | A | A | A | A | A |
| W. SUCKER | - | - | - | - | A | A | A | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| RAINBOW | 0.000006 | 2.53572 | 0.902 | 0 | | 0.00 |
| W. SUCKER | 0.000010 | 2.60496 | 0.728 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #NC-1, 1976

SAMPLING SITE: NORTH CHANNEL DISTRICT: ALGOMA

LAT/LONG: 4600/8300

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|----------|-------|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | * 157 | 0.26 | 0.02- | 0.80 | 26.3 | 20.8- | 32.0 | 282 | 130- | 485 | 3.2 |
| WALLEYE | * 171 | 0.36 | 0.11- | 0.92 | 39.3 | 26.5- | 53.0 | 691 | 180- | 1730 | 12.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | - | A | A | A | B | - | - | - | - | - |
| WALLEYE | - | - | A | A | A | A | B | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.000043 | 2.63375 | 0.392 | 0 | | 0.00 |
| WALLEYE | 0.000320 | 1.90063 | 0.618 | 50 | | 0.54 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: HURON #NC-1, 1976

SAMPLING SITE: NORTH CHANNEL COUNTY: ALGOMA

LAT/LONG: 4612/8239

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| WALLEYE | * 10 | 0.22 | 0.11- 0.51 | 39.4 | 31.8- 56.0 | 731 | 300- 2050 | 10.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WALLEYE | - | - | - | A | A | A | B | B | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000006 | 2.85232 | 0.945 | 50 | | 0.39 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #NC-1, 1977

SAMPLING SITE: ST. MARY'S R. DISTRICT: ALGOMA

LAT/LONG: 46 31/84 14

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WALLEYE | * 27 | 0.42 | 0.20- | 0.66 | 42.7 | 32.0- | 51.0 | 799 | 290- | 1500 | 33.3 |
| Y. PERCH | * 27 | 0.22 | 0.06- | 0.80 | 23.5 | 17.0- | 32.0 | 241 | 65- | 600 | 11.1 |
| PIKE | * 27 | 0.44 | 0.10- | 1.40 | 63.9 | 47.0- | 76.5 | 1567 | 600- | 2750 | 25.9 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|--|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 | |
| WALLEYE | - | - | - | A | A | A | B | C | - | - | |
| Y. PERCH | - | A | A | A | A | - | - | - | - | - | |
| PIKE | - | - | - | - | - | A | A | A | B | C | |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| WALLEYE | 0.000025 | 2.57802 | 0.846 | 50 | | 0.61 |
| Y. PERCH | 0.000649 | 1.76907 | 0.541 | 0 | | 0.00 |
| PIKE | 0.000000 | 3.33636 | 0.762 | 60 | | 0.31 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #NC1, 1974

SAMPLING SITE: SERPENT R. DISTRICT: ALCONA

LAT/LONG: 4612/8238

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | % ≥ .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| W. SUCKER * | 9 | 0.04 | 0.02- | 0.11 | 32.9 | 29.2- | 45.2 | 436 | 275- | 1152 | 0.0 |
| Y. PERCH | 9 | 0.31 | 0.22- | 0.51 | 26.1 | 23.9- | 30.7 | 220 | 161- | 317 | 11.1 |
| PIKE * | 10 | 0.40 | 0.22- | 0.68 | 60.8 | 51.1- | 75.5 | 1568 | 783- | 2924 | 30.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | - | - | A | A | A | A | - | - | - |
| PIKE | - | - | - | - | - | - | A | A | B | B |

A MERCURY CONCENTRATION <0.5 PPM

B MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| W. SUCKER | 0.000000 | 3.36326 | 0.844 | 0 | | 0.00 |
| PIKE | 0.000060 | 2.13540 | 0.885 | 60 | | 0.37 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #NCL, 1975
SAMPLING SITE: L. GEORGE DISTRICT: PARRY SOUND LAT/LONG: 46 31/8420
DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ > .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH | 4 | 0.23 | 0.16- | 0.28 | 27.9 | 23.4- | 32.6 | 389 | 196- | 648 | 0.0 |
| W. SUCKER * | 10 | 0.13 | 0.10- | 0.20 | 43.8 | 40.3- | 46.4 | 1039 | 754- | 1239 | 0.0 |
| PIKE * | 10 | 0.27 | 0.16- | 0.44 | 51.9 | 43.8- | 63.8 | 966 | 564- | 1554 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | - | - | - | - | A | A | - | - | - |
| PIKE | - | - | - | - | - | A | A | A | B | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
L MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| W. SUCKER | 0.000001 | 3.10215 | 0.752 | 0 | | 0.00 |
| PIKE | 0.000043 | 2.20818 | 0.926 | 60 | | 0.36 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #NC-2, 1976

SAMPLING SITE: SPANISH R. DISTRICT: ALCOMA

LAT/LONG:

4611/8219

DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % >= .5 PPM |
|---------|------|---------------|------------|--------------|------------|--------------|-----------|-------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| PIKE | * 9 | 0.52 | 0.30- 0.64 | 51.5 | 39.0- 67.0 | 1017 | 500- 1800 | 66.7 |
| WALLEYE | * 41 | 0.46 | 0.16- 0.87 | 28.9 | 14.0- 48.9 | 332 | 25- 1350 | 31.7 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| PIKE | - | - | - | - | A | A | B | B | B | - |
| WALLEYE | A | A | A | A | B | B | B | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| PIKE | 0.011086 | 0.96947 | 0.673 | 60 | | 0.59 |
| WALLEYE | 0.010500 | 1.11598 | 0.808 | 50 | | 0.83 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE HURON #NC2, 1975

SAMPLING SITE: SPANISH R. DISTRICT: ALCONA

LAT/LONG: 4611/8219

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | ≥.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| Y. PERCH * | 7 | 0.27 | 0.16- | 0.38 | 27.1 | 24.1- | 29.2 | 284 | 229- | 346 | 0.0 |
| PIKE | 10 | 0.25 | 0.17- | 0.45 | 52.9 | 45.5- | 68.5 | 990 | 585- | 2267 | 0.0 |
| W. SUCKER * | 10 | 0.06 | 0.03- | 0.14 | 36.2 | 30.9- | 43.5 | 603 | 359- | 1034 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| Y. PERCH | - | - | A | A | E | - | - | - | - | - |
| W. SUCKER | - | - | - | A | A | A | A | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM

E MERCURY CONCENTRATION 0.5-1.0 PPM

C MERCURY CONCENTRATION 1.0-1.5 PPM

D MERCURY CONCENTRATION >1.5 PPM

- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| Y. PERCH | 0.000001 | 3.89318 | 0.946 | 0 | | 0.00 |
| W. SUCKER | 0.000002 | 2.87253 | 0.765 | 0 | | 0.00 |

MERCURY DATA SUMMARIES

LAKE SUPERIOR

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #1, 1973
SAMPLING SITE: PINE BAY LISIFICT: THUNDER BAY LAT/LONG: 4802/8930
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | Σ > 0.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH * | 10 | 0.18 | 0.06- | 0.36 | 49.7 | 40.9- | 56.5 | 1693 | 835- | 2315 | 0.0 |
| L. TROUT | 10 | 0.39 | 0.31- | 0.49 | 43.7 | 37.3- | 47.5 | 1094 | 472- | 1989 | 0.0 |
| WALLEYE * | 10 | 0.60 | 0.45- | 0.80 | 44.1 | 42.4- | 46.5 | 1171 | 1026- | 1371 | 70.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | - | - | A | A | B | - | - |
| WALLEYE | - | - | - | - | - | B | D | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000000 | 3.98796 | 0.823 | 0 | | 0.00 |
| WALLEYE | 0.000000 | 5.68809 | 0.907 | 50 | | 1.20 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #1, 1973
SAMPLING SITE: THUNDER BAY DISTRICT: THUNDER BAY LAT/LONG: 4825/8900
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH * | 9 | 0.12 | 0.08- | 0.18 | 45.2 | 42.4- | 47.5 | 1199 | 953- | 1462 | 0.0 |
| L. TROUT | 6 | 0.68 | 0.61- | 0.73 | 59.2 | 53.8- | 67.1 | 2592 | 2107- | 2851 | 100.0 |
| CISCO | 2 | 0.15 | 0.14- | 0.16 | 35.2 | 34.5- | 35.8 | 504 | 499- | 508 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | - | - | A | A | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000000 | 4.75026 | 0.741 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #2, 1976
SAMPLING SITE: BLACK BAY DISTRICT: THUNDER BAY LAT/LONG: 48 35/88 30
DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|----------|---|---------------|-----------------|--------------|------------|--------------|------------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * | 8 | 0.15 0.09- 0.24 | 50.3 | 46.0- 55.5 | 1618 | 1200- 2076 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | A | A | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000000 | 3.27376 | 0.700 | 60 | | 0.25 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #2, 1973
SAMPLING SITE: BLACK BAY DISTRICT: THUNDER BAY LAT/LONG: 4840/8825
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| CISCO | 9 | 0.19 | 0.13- | 0.23 | 32.1 | 26.9- | 34.5 | 432 | 390- | 527 | 0.0 |
| L. TROUT | 10 | 0.63 | 0.46- | 0.93 | 60.9 | 55.1- | 68.6 | 2608 | 2197- | 3060 | 80.0 |
| WHITEFISH * | 10 | 0.04 | 0.02- | 0.10 | 44.0 | 41.7- | 46.7 | 1072 | 890- | 1389 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | - | - | A | A | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000000 | 9.13858 | 0.706 | 0 | | 0.00 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #3, 1976
 SAMPLING SITE: NIPIGON BAY DISTRICT: THUNDER BAY LAT/LONG: 4855/8800
 DATA SOURCE: FRB

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|------------|---|---------------|------------|--------------|------------|--------------|------------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT * | 8 | 0.19 | 0.08- 0.45 | 50.7 | 43.5- 64.5 | 1709 | 1044- 3756 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | A | A | B | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000000 | 3.72023 | 0.784 | 60 | | 0.32 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #3, 1977

SAMPLING SITE: PANCAKE BAY DISTRICT: ALCONA

LAT/LONG: 4657/8441

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|---------|-----|---------------|------------|--------------|------------|--------------|--------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| SMELT | * 5 | 0.17 | 0.10- 0.23 | 17.3 | 15.0- 20.0 | 30 | 19- 45 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| SMELT | A | A | A | - | - | - | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| SMELT | 0.000108 | 2.57916 | 0.931 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #3, 1976
SAMPLING SITE: RED ROCK DISTRICT: THUNDER BAY LAT/LONG: 4855/8815
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | ≥ .5 PPM |
|---------|-----|---------------|-------|------|--------------|-------|------|--------------|-------|-----|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| SMELT | * 6 | 0.17 | 0.08- | 0.48 | 15.8 | 15.0- | 20.0 | 50 | 20- | 200 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| SMELT | A | B | D | - | - | - | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| SMELT | 0.000000 | 5.31208 | 0.924 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #3, 1976
SAMPLING SITE: ROSSPORT DISTRICT: THUNDER BAY LAT/LONG: 4850/8731
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % > .5 PPM |
|----------|------|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | * 21 | 0.49 | 0.24- | 0.87 | 52.2 | 41.0- | 68.0 | 2182 | 46- | 5038 | 38.1 |
| COHO | 2 | 0.24 | 0.22- | 0.25 | 46.5 | 46.0- | 47.0 | 1244 | 995- | 1492 | 0.0 |
| RAINBOW | 1 | 0.13 | - | - | 61.0 | - | - | 1990 | - | - | - |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | B | B | B | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000394 | 1.78996 | 0.745 | 60 | | 0.60 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #3, 1973
SAMPLING SITE: ROSSPORT PT. DISTRICT: THUNDER BAY LAT/LONG: 4849/8733
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH * | 10 | 0.20 | 0.12- | 0.31 | 44.6 | 42.9- | 49.3 | 1071 | 944- | 1262 | 0.0 |
| L. TROUT * | 10 | 0.35 | 0.07- | 0.44 | 51.3 | 46.0- | 55.4 | 1839 | 1135- | 2433 | 0.0 |
| MENOMINEE | 10 | 0.08 | 0.06- | 0.10 | 36.6 | 34.3- | 38.1 | 480 | 400- | 527 | 0.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | - | - | A | B | - | - | - |
| L. TROUT | - | - | - | - | - | A | B | D | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000000 | 5.54670 | 0.718 | 0 | | 0.00 |
| L. TROUT | 0.000000 | 6.16799 | 0.719 | 60 | | 0.85 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #4, 1973

SAMPLING SITE: MOSS IS. DISTRICT: THUNDER BAY LAT/LONG: 48 39/8813

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 1 | 0.71 | - | - | 58.4 | - | - | 2465 | - | - | - |
| CISCO | 10 | 0.14 | 0.11- | 0.19 | 31.0 | 10.2- | 35.6 | 514 | 409- | 627 | 0.0 |
| WHITEFISH | 2 | 0.15 | 0.13- | 0.16 | 46.0 | 45.2- | 46.7 | 1099 | 944- | 1253 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #5, 1973
SAMPLING SITE: JACKFISH BAY DISTRICT: THUNDER BAY LAT/LONG: 4848/8659
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | >= .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 10 | 0.06 | 0.04- | 0.08 | 39.8 | 37.6- | 42.2 | 891 | 717- | 1099 | 0.0 |
| CISCO * | 10 | 0.16 | 0.07- | 0.20 | 36.5 | 33.8- | 40.6 | 612 | 481- | 953 | 0.0 |
| L. TROUT | 10 | 0.46 | 0.33- | 0.65 | 50.4 | 46.7- | 55.4 | 1787 | 1226- | 2443 | 30.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|---------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| CISCO | - | - | - | A | A | A | - | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|---------|----------|---------|-------|----------|----|---------|
| CISCO | 0.000000 | 4.01425 | 0.647 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #5, 1977

SAMPLING SITE: PEN. HARBOUR DISTRICT: THUNDER BAY LAT/LONG: 4845/8624

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 25 | 0.74 | 0.14- | 1.80 | 38.1 | 26.0- | 45.5 | 466 | 181- | 793 | 52.0 |
| R.H.SUCKER* | 7 | 0.91 | 0.18- | 1.90 | 30.4 | 20.5- | 43.5 | 395 | 45- | 951 | 85.7 |
| L. TROUT | 6 | 0.84 | 0.71- | 0.98 | 70.8 | 64.5- | 74.0 | 3964 | 3035- | 4621 | 100.0 |
| RAINBOW | 3 | 0.12 | 0.08- | 0.14 | 47.2 | 32.0- | 55.5 | 1450 | 453- | 2039 | 0.0 |
| SMELT | 8 | 0.29 | 0.20- | 0.43 | 22.0 | 19.0- | 26.0 | 51 | 45- | 91 | 0.0 |
| CISCO | 1 | 1.50 | - | - | 53.5 | - | - | 1450 | - | - | - |
| BURBOT | 1 | 1.60 | - | - | 53.0 | - | - | 1359 | - | - | - |
| W. SUCKER | 5 | 0.73 | 0.16- | 0.95 | 29.2 | 22.5- | 36.0 | 435 | 227- | 680 | 80.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| R.H.SUCKER | - | A | B | C | D | D | - | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HC = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HC | AT STD. |
|------------|----------|---------|-------|----------|----|---------|
| R.H.SUCKER | 0.000807 | 2.02426 | 0.832 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #5, 1976
SAMPLING SITE: PENINSULA HAR. DISTRICT: THUNDER BAY LAT/LONG: 4844/8625
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH * | 18 | 0.86 | 0.08- | 2.10 | 37.5 | 31.0- | 45.0 | 479 | 227- | 965 | 66.7 |
| W. SUCKER * | 24 | 0.79 | 0.07- | 2.10 | 29.2 | 20.5- | 47.0 | 357 | 85- | 1078 | 75.0 |
| SMELT | 1 | 0.36 | - | - | 22.5 | - | - | 57 | - | - | - |
| L. TROUT | 33 | 0.98 | 0.71- | 1.90 | 68.2 | 63.0- | 77.5 | 3368 | 2554- | 5108 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | A | B | D | D | - | - | - |
| W. SUCKER | - | A | B | B | B | C | D | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000000 | 4.29309 | 0.500 | 0 | | 0.00 |
| W. SUCKER | 0.005463 | 1.42433 | 0.548 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #5, 1977

SAMPLING SITE: PEN. HARBOUR DISTRICT: THUNDER BAY LAT/LONG: 4845/8624

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (CM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 25 | 0.74 | 0.14- | 1.80 | 38.1 | 26.0- | 45.5 | 466 | 181- | 793 | 52.0 |
| R.H.SUCKER* | 7 | 0.91 | 0.18- | 1.90 | 30.4 | 20.5- | 43.5 | 395 | 45- | 951 | 85.7 |
| L. TROUT | 6 | 0.84 | 0.71- | 0.98 | 70.8 | 64.5- | 74.0 | 3964 | 3035- | 4621 | 100.0 |
| RAINBOW | 3 | 0.12 | 0.08- | 0.14 | 47.2 | 32.0- | 55.5 | 1450 | 453- | 2039 | 0.0 |
| SMELT | 8 | 0.29 | 0.20- | 0.43 | 22.0 | 19.0- | 26.0 | 51 | 45- | 91 | 0.0 |
| CISCO | 1 | 1.50 | - | - | 53.5 | - | - | 1450 | - | - | - |
| BURBOT | 1 | 1.60 | - | - | 53.0 | - | - | 1359 | - | - | - |
| W. SUCKER | 5 | 0.73 | 0.16- | 0.95 | 29.2 | 22.5- | 36.0 | 435 | 227- | 680 | 80.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| R.H.SUCKER | - | A | B | E | C | D | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 + L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|------------|----------|---------|-------|----------|----|---------|
| R.H.SUCKER | 0.000807 | 2.02426 | 0.832 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #5, 1976
SAMPLING SITE: PENINSULA HAR.DISTRICT: THUNDER BAY LAT/LONG: 4844/8625
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH * | 18 | 0.86 | 0.08- | 2.10 | 37.5 | 31.0- | 45.0 | 479 | 227- | 965 | 66.7 |
| W. SUCKER * | 24 | 0.79 | 0.07- | 2.10 | 29.2 | 20.5- | 47.0 | 357 | 85- | 1078 | 75.0 |
| SMELT | 1 | 0.36 | - | - | 22.5 | - | - | 57 | - | - | - |
| L. TROUT | 33 | 0.98 | 0.71- | 1.90 | 68.2 | 63.0- | 77.5 | 3368 | 2554- | 5108 | 100.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| WHITEFISH | - | - | - | A | B | D | D | - | - | - |
| W. SUCKER | - | A | B | B | B | C | D | - | - | - |

A MERCURY CONCENTRATION <0.5 PPM
B MERCURY CONCENTRATION 0.5-1.0 PPM
C MERCURY CONCENTRATION 1.0-1.5 PPM
D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-----------|----------|---------|-------|----------|----|---------|
| WHITEFISH | 0.000000 | 4.29309 | 0.500 | 0 | | 0.00 |
| W. SUCKER | 0.005463 | 1.42433 | 0.548 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #5, 1975

SAMPLING SITE: PENINSULA HAR. DISTRICT: THUNDER BAY LAT/LONG: 4844/8625

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 15 | 0.74 | 0.30- | 1.50 | 38.5 | 30.0- | 44.0 | 478 | 171- | 741 | 73.3 |
| L. TROUT | 6 | 1.01 | 0.50- | 1.90 | 65.7 | 63.0- | 70.0 | 2707 | 2308- | 3163 | 100.0 |
| RAINBOW | 2 | 0.47 | 0.44- | 0.49 | 34.5 | 33.0- | 36.0 | 455 | 426- | 484 | 0.0 |
| BURBOT | 2 | 1.03 | 0.96- | 1.10 | 43.5 | 40.0- | 47.0 | 544 | 460- | 627 | 100.0 |
| G. SHAD | 7 | 0.24 | 0.18- | 0.27 | 19.1 | 16.0- | 22.0 | 102 | 71- | 143 | 0.0 |
| W. SUCKER * | 6 | 0.64 | 0.50- | 1.00 | 28.7 | 23.0- | 38.0 | 305 | 171- | 627 | 100.0 |
| L.N.SUCKER* | 26 | 0.81 | 0.09- | 2.60 | 33.7 | 25.0- | 46.0 | 471 | 171- | 1111 | 50.0 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|-------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| W. SUCKER | - | - | B | E | B | C | - | - | - | - |
| L.N. SUCKER | - | - | A | A | B | D | D | - | - | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|-------------|----------|---------|-------|----------|----|---------|
| W. SUCKER | 0.010613 | 1.21715 | 0.853 | 0 | | 0.00 |
| L.N. SUCKER | 0.000010 | 3.15638 | 0.760 | 0 | | 0.00 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #5, 1973

SAMPLING SITE: PENINSULA HAR. DISTRICT: THUNDER BAY LAT/LONG: 4844/8625

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|----------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 10 | 0.67 | 0.47- | 1.10 | 54.5 | 51.6- | 58.4 | 2203 | 1743- | 2760 | 80.0 |
| WHITEFISH | 4 | 0.75 | 0.44- | 1.00 | 44.1 | 41.7- | 46.1 | 1144 | 817- | 1335 | 75.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #5, 1977
SAMPLING SITE; TERRACE EAY DISTRICT; THUNDER BAY LAT/LONG: 4850/8705
DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | % >= .5 PPM |
|------------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 25 | 0.17 | 0.14- | 0.21 | 47.4 | 42.0- | 55.0 | 999 | 685- | 1690 | 0.0 |
| L. TROUT * | 24 | 0.65 | 0.15- | 1.90 | 55.3 | 40.0- | 74.0 | 1758 | 560- | 4030 | 45.8 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | B | B | C | D |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A0 * L^{A1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000004 | 2.95653 | 0.705 | 60 | | 0.68 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #5, 1976
SAMPLING SITE: TERRACE BAY DISTRICT: THUNDER BAY LAT/LONG: 4847/8710
DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>= .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|------------|---------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 15 | 0.41 | 0.22- 0.88 | 52.5 | 47.0- 65.0 | 2065 | 1344- 3364 | 13.3 |

* SIZE SPECIFIC CLASSIFICATION AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | A | B | C | - |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN. | HG | AT STD. |
|----------|----------|---------|-------|----------|----|---------|
| L. TROUT | 0.000000 | 3.58251 | 0.893 | 60 | | 0.63 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #6, 1973

SAMPLING SITE: MICHIPICOTEN DISTRICT; ALGOMA

LAT/LONG: 4757/8453

DATA SOURCE: NOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| WHITEFISH | 10 | 0.17 | 0.14- | 0.18 | 45.5 | 41.1- | 47.5 | 1089 | 962- | 1271 | 0.0 |
| L. TROUT | 4 | 0.69 | 0.60- | 0.75 | 41.8 | 39.9- | 44.5 | 949 | 844- | 1117 | 100.0 |
| CISCO | 10 | 0.25 | 0.20- | 0.34 | 36.3 | 33.0- | 38.1 | 562 | 418- | 681 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #7, 1977

SAMPLING SITE: BATCHAWANA BAY DISTRICT: ALGOMA

LAT/LONG: 4650/8425

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | % > .5 PPM |
|----------|------|---------------|------------|--------------|------------|--------------|-----------|------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | * 20 | 0.43 | 0.21- 0.66 | 57.0 | 43.0- 71.0 | 1695 | 700- 3300 | 35.0 |

* SIZE SPECIFIC BREAKDOWN AVAILABLE

MERCURY CONCENTRATION IN RELATION TO FISH LENGTH

| SPECIES | SIZE RANGE IN INCHES | | | | | | | | | |
|----------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|-----|
| | <6 | 6-8 | 8-10 | 10-12 | 12-14 | 14-18 | 18-22 | 22-26 | 26-30 | >30 |
| L. TROUT | - | - | - | - | - | A | A | B | B | B |

- A MERCURY CONCENTRATION <0.5 PPM
- B MERCURY CONCENTRATION 0.5-1.0 PPM
- C MERCURY CONCENTRATION 1.0-1.5 PPM
- D MERCURY CONCENTRATION >1.5 PPM
- MERCURY DATA NOT AVAILABLE FOR THIS SIZE

*****REGRESSION DATA*****

REGRESSION MODEL: $HG = A_0 * L^{A_1}$

| SPECIES | A0 | A1 | R | STD LEN | HG AT STD. |
|----------|----------|---------|-------|---------|------------|
| L. TROUT | 0.000317 | 1.77788 | 0.831 | 60 | 0.46 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #7, 1973

SAMPLING SITE: BATCHAWANA DISTRICT: ALGOMA

LAT/LONG: 4653/8430

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>=.5 PPM |
|-----------|---|---------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| CISCO | 6 | 0.15 | 0.10- | 0.18 | 39.2 | 37.3- | 41.7 | 663 | 608- | 735 | 0.0 |
| L. TROUT | 8 | 0.43 | 0.38- | 0.49 | 55.1 | 48.3- | 65.5 | 1850 | 1289- | 2343 | 0.0 |
| WHITEFISH | 9 | 0.14 | 0.07- | 0.19 | 46.1 | 43.4- | 51.1 | 1169 | 1044- | 1262 | 0.0 |

MERCURY DATA SUMMARY
 ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #7, 1975

SAMPLING SITE: EASTERN BASIN DISTRICT: ALGOMA

LAT/LONG: -/-

DATA SOURCE: PPL

| SPECIES | N | MERCURY CONC. | | | LENGTH (CM.) | | | WEIGHT (GM.) | | | %>= .5 PPM |
|-----------|----|---------------|-------|------|--------------|-------|------|--------------|-------|------|---------------|
| | | MEAN | RANGE | | MEAN | RANGE | | MEAN | RANGE | | |
| L. TROUT | 10 | 0.14 | 0.10- | 0.20 | 46.3 | 39.8- | 50.5 | 1121 | 555- | 1432 | 0.0 |
| LAKE CHUB | 10 | 0.18 | 0.08- | 0.33 | 27.3 | 25.0- | 31.0 | 169 | 112- | 268 | 0.0 |
| WHITEFISH | 10 | 0.10 | 0.06- | 0.14 | 48.6 | 44.0- | 52.0 | 1135 | 766- | 1400 | 0.0 |
| W. SUCKER | 8 | 0.18 | 0.12- | 0.24 | 43.7 | 40.0- | 47.5 | 946 | 696- | 1154 | 0.0 |

MERCURY DATA SUMMARY
ONTARIO MINISTRY OF THE ENVIRONMENT, LABORATORY SERVICES BRANCH

LOCATION: LAKE SUPERIOR #7, 1976

SAMPLING SITE: MAMAINSE PT. DISTRICT: ALGOMA

LAT/LONG: 4702/8447

DATA SOURCE: MOE

| SPECIES | N | MERCURY CONC. | | LENGTH (CM.) | | WEIGHT (GM.) | | %>=.5 PPM |
|----------|----|---------------|------------|--------------|------------|--------------|------------|--------------|
| | | MEAN | RANGE | MEAN | RANGE | MEAN | RANGE | |
| L. TROUT | 40 | 0.68 | 0.16- 1.60 | 53.7 | 47.0- 65.0 | 1378 | 1000- 2200 | 52.5 |



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